

Prepared for

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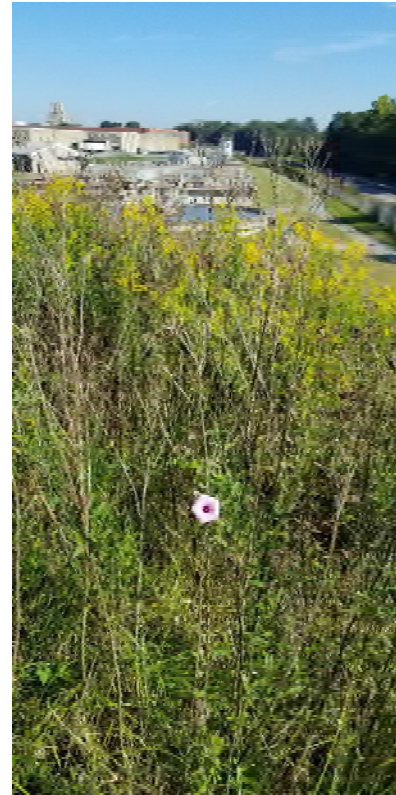
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POST CLOSURE FIVE YEAR REPORT ARMSTRONG WORLD INDUSTRIES OPERABLE UNIT-1 (WWTP LANDFILL)

**MACON, GEORGIA
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December 16, 2017

June 22, 2018

December 24, 2018

March 19, 2019

August 16, 2019

June 5, 2020

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ACRONYMS AND ABBREVIATIONS

AIP	Allied Industrial Park
AOC	Administrative Order on Consent
ARARs	Applicable or Relevant and Appropriate Requirements
AWI	Armstrong World Industries
BRP	Base Reinforcing Pad
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	Department of Transportation
DPT	Direct Push Technology
EE/CA	Engineering Evaluation/Cost Analysis
FMNOL	Former Macon Naval Ordnance Landfill
FMNOP	Former Macon Naval Ordnance Plant
GCL	Geosynthetic Clay Liner
ID	Inside Diameter
MCL	Maximum Contaminant Level
MSE	Mechanically Stabilized Earthen
NCP	National Contingency Plan
NTCRA	Non-Time Critical Removal Action
OM&M	Operation Maintenance and Monitoring
OSWER	Office of Solid Waste and Emergency Response
OU-1	Operable Unit 1
PCBs	Polychlorinated Biphenyls
PCFYR	Post Closure Five Year Report
PE	Professional Engineer
PG	Professional Geologist
PRSCP	Post Removal Site Control Plan
Ramboll	Ramboll US Consulting
RAOs	Remedial Action Objectives
RAFR	Removal Action Final Report
RAWP	Remedial Action Work Plan
RSL	Regional Screening Levels
USEPA	United States Environmental Protection Agency
WWTP	Wastewater Treatment Plant

1. INTRODUCTION

On behalf of Armstrong World Industries, Inc. (AWI), Ramboll US Consulting, Inc. (Ramboll [formerly Ramboll ENVIRON and/or ENVIRON]) has prepared this Post Closure Five Year Report (PCFYR or “the Report”) for the Wastewater Treatment Plant (WWTP) Landfill, which is Operable Unit 1 [OU-1]) of the Armstrong World Industries Superfund site located in Macon, Georgia. This Report presents the operation, maintenance, and monitoring (OM&M) activities and documents the inspections that occurred over the last five years that are associated with the long-term care and oversight of the OU-1 remedy at the site.

The Report is based on the elements that were specified in the USEPA-approved Post Removal Site Control Plan (PRSCP; Ramboll Environ, 2017), and is consistent with Section 300.415(1) of the National Contingency Plan (NCP) and Office of Solid Waste and Emergency Response (OSWER) Directive 9360.2-02 that is required under AWI’s Administrative Order on Consent (AOC), Docket No. CERCLA -01-2014-3758, dated July 7, 2014. As such, this PCFYR presents the monitoring activities that occurred over the past five years, and discusses the remedy inspections and groundwater monitoring activities that occurred during the specified five year period. We note that, while this report was referred to as a “Five Year Review Report” in the PRSCP, the title has been changed per USEPA’s request to avoid confusion with the formal USEPA Five Year Review Reports).

1.1 Site Description and Location

AWI has operated an acoustic ceiling tile manufacturing facility at the property since 1948. The site is located in an industrialized area approximately 5 miles south-southwest of downtown Macon, Bibb County, Georgia. The geographic coordinates of the center of OU-1 are 32° 46’ 24.59” North and 84° 39’ 5.76” West. The AWI property is comprised of approximately 130 acres that are divided into northern and southern parcels. The northern parcel consists of the manufacturing area, the WWTP area (which includes the approximately 4-acre WWTP Landfill), and an approximately 4.5-acre closed landfill (the Woodyard Landfill). The WWTP Landfill (OU-1) is located at the southeast portion of the northern parcel. The southern parcel consists of wooded land and an approximately 5-acre landfill (the Remote Landfill), east of which is the Former Macon Naval Ordnance Landfill (FMNOL) that historically received waste from the Former Macon Naval Ordnance Plant (FMNOP). A site location map and site layout map are provided as Figures 1 and 2 in **Appendix A.1**.

1.2 Remedy Components Subject to the PRSCP

The OU-1 remedy components consisted of multiple engineered systems designed to mitigate potential exposures to soil, sediment, groundwater, and surface water associated with OU-1. These engineered systems included a landfill cap with a barrier wall and a redesigned stormwater conveyance system immediately east of the OU-1 landfill. The engineered systems and their respective components are briefly described below and figures illustrating the details for each component are provided in **Appendix A.1**.

1.2.1 Landfill Cap/Vegetative Cover

To prevent infiltration of precipitation into the landfill, a three-tiered cap consisting of a geosynthetic clay liner (GCL), geogrid drainage layer, and backfill/topsoil cover was installed on the landfill. Tier 1 consists of the GCL, which is a two-layer composite-laminated liner impregnated with bentonite granules that are placed between an impermeable nylon geomembrane and a geosynthetic fabric. Tier 2 consists of a geogrid drainage layer that was placed directly over the GCL across the surface of the landfill (but not along the eastern embankment). This layer facilitates lateral movement of stormwater that may infiltrate the overlying cover of fill material and topsoil towards the stormwater collection system. Finally, Tier 3 consists of a 2-foot layer of soil material (backfill and topsoil) that protects the geogrid drainage layer and allows for the growth of vegetation. An illustration of the cap components is provided as Figure 3 in **Appendix A.1**.

Anchor trenches are located along the perimeter of the cap at the surface of the landfill to lock the GCL beneath the clean backfill, as well as to collect and direct stormwater away from the surface of the cap. The anchor trenches along the top of the eastern embankment were installed to anchor the GCL on both the downslope of the eastern embankment and the surface of the landfill. The anchor trenches are approximately 4 feet wide and 3 feet deep. The backfill and topsoil above the trench is contoured to serve as a vegetated drainage swale to direct stormwater away from the GCL cap and towards the sedimentation pond on the northern end of the landfill. The final grade of the landfill cap is vegetated with a mix of pollinator type seed mix, mulch, and tackifiers to limit erosion. Figure 3 in **Appendix A.1** presents more detail of the anchor trenches and embankment.

1.2.2 Box Culvert System

A subsurface dual concrete box culvert stormwater conveyance system was installed to replace the drainage swale that combined stormwater from the site with sedimentation pond over-flow and yard surface runoff. This conveyance system is located from the northeast portion of OU-1, where the facility's multiple stormwater outfalls discharged into the drainage swale, extends along the eastern base of the landfill, and terminates at the plunge pool located near the southeast property boundary (before exiting the property). The expansion of the forebay and dual box culvert installation were designed to collect and convey the inflow of a 100-year storm event. In addition, a downstream plunge pool was constructed as a velocity-reduction basin for stormwater and to replace the outfall area originally located at the southern property boundary. Details of the box culvert stormwater conveyance system are presented in Figure 4 of **Appendix A.1**.

Backfill is present on top of the box culverts and drop inlet connections for the three discharge outfalls (stormwater yard inlet, the aeration basin emergency drain, and the final clarifier emergency drain) are located such that flow would be piped directly into the box culvert stormwater conveyance system. The backfill is vegetated to limit erosion.

1.2.3 Water Basins

Surface water basins installed as part of the stormwater conveyance system include a sedimentation pond, forebay, and a plunge pool are discussed below.

1.2.3.1 Sedimentation Pond

A sedimentation pond is located at the furthest upgradient location of the landfill. The sedimentation pond was designed to allow collection and ultimate deposition of solids carried to the pond as a result of storm events. Silty runoff that is collected in the pond is retained until a liquid set point is reached, at which time the stormwater discharged to the forebay. The components of the sedimentation pond consist of discharge piping, riser pipe, basin baffles, trash rack, rip rap filter, and skimmer. The location and various components of the sedimentation pond is provided in Figure 5 of **Appendix A.1**.

1.2.3.2 Forebay

A forebay was constructed to combine, equalize, and settle the discharge flows before entering the box culvert system, as well as accept over-flows from the sedimentation pond. The forebay area is lined with a geosynthetic membrane installed along the base and sides to prevent water from infiltrating into the soil beneath the pond. Rip rap stone work covers the geosynthetic membrane to protect the basin walls from erosion and surge flows from storm events. Components of the forebay can be seen on Figure 5 of **Appendix A.1**.

1.2.3.3 Plunge Pool

The plunge pool, located at the southern end of the box culverts, was installed to dissipate the energy from stormwater flow and WWTP discharge following peak storms prior to the water flowing offsite. The plunge pool consists of a geotextile liner placed along the bottom and sides with a rip rap stone cover. The location and details of the plunge pool is shown on Figure 5 in **Appendix A.1**.

1.2.4 Barrier Wall

A mechanically-stabilized earthen (MSE) barrier wall with a GCL liner was installed along the 3:1 and 1:1 slopes on the eastern side of OU-1 to provide stability, eliminate landfill erosion, and serve as a barrier to prevent groundwater from migrating through the side of the landfill. The barrier wall was constructed to secure the GCL and provide stability to the embankment.

The barrier wall reaches an average height of approximately 15 feet from its base and is terraced in 18-inch lifts on a 1:1 slope. Each level is constructed of 10-foot sections of welded wire form baskets which are backfilled and wrapped with woven geotextile fabric. The final grade of the barrier wall is vegetated to limit erosion.

In order to allow precipitation that may enter the MSE wall (outside the GCL) to drain to the base of the wall and be diverted to the collection system, a stormwater collection system was installed along the interface of the landfill and the MSE wall. The collection system consists of 4-inch diameter solid PVC pipe exit drains. The drains are located approximately every 25 feet along the northern half of the base of the barrier wall. Exit drains do not exist along the southern half of the wall since flows are routed to an underlying base reinforcing pad (BRP) that also serves as a drainage feature. In addition, a 6-foot wide drainage swale is present along the entire length of the top of the MSE wall to provide a transition area from the 3:1 slope to the 1:1 slope. At the centerpoint of the wall, the swale slopes to the north towards the forebay and to the south towards the plunge pool. The surface of the drainage features are vegetated to limit erosion. Details of the barrier wall system are illustrated on Figure 6 of **Appendix A.1**.

The remainder of this PCFYR is organized as follows:

- Section 2: Periodic Inspections
- Section 3: Landfill Repair Work
- Section 4: Groundwater Monitoring
- Section 5: Conclusions and Path Forward
- Section 6: References

2. PERIODIC INSPECTIONS

The OM&M and inspection requirements for each of the remedy components are presented in detail in the March 2017 PRSCP. In general accordance with those requirements, AWI conducted periodic inspections of the OU-1 remedy to assess and document whether the components of the remedy were still in place and functioning as designed. Documentation of the inspections was captured using checklists that were included in the PRSCP, and are presented in **Appendix A.2**.

This PCFYR also includes the formal inspection of the remedy components by a professional engineer (PE) that is required every five years to document and certify that the overall remedy is effective as designed and in compliance with the Remedial Action Work Plan (RAWP). In addition, a groundwater monitoring and sampling program near the end of the five year period is specified in the PRSCP to assess the groundwater quality at the site.

2.1 Inspection Requirements

The results and findings of the inspection and monitoring activities have been compiled in this PCFYR, as required under the 2014 AOC. The inspections performed over the past five years are briefly described below.

2.1.1 Landfill Cap and Vegetative Cover

The landfill cap and vegetative cover inspections included visual observations to identify issues that may impact the integrity of the cap or its components. The soil cover on the landfill cap was inspected for erosion and thinning. The landfill cap was also visually inspected to ensure that the GCL is not exposed and that it remains secure in the anchor trenches. Runoff from storm events were observed when possible to note whether water is flowing as designed and not ponding on the surface. The inspection also noted if the vegetation needed to be maintained, and if any deep-rooted plants or trees were observed (and removed, as necessary).

2.1.2 Box Culvert System

The box culvert system inspections included visual observations of the inlets and outlets of the culvert system in order to evaluate any evidence of damage, blockage, or any other developments that would restrict flow through the culvert system. When possible, inspections followed periods of high flow, extreme storm events, and/or whenever significant changes such as new development resulting in increased runoff.

2.1.3 Water Basins (Sedimentation Basin, Forebay, and Plunge Pool)

The water basins were inspected to assess stormwater flow through the sedimentation basin, forebay, and plunge pool.

2.1.4 Barrier Wall

The barrier wall was inspected for vegetative health and coverage, erosion issues within the wall, exposure of GCL, and proper functioning of the drainage features (both the swale on top of the wall and the drain lines placed along the base of the wall).

2.1.5 Groundwater Monitoring

Groundwater samples were collected from four monitoring wells located in the vicinity of the site. Specifically, monitoring wells MW-04, MW-05, MW-05D, and MW-06R (the replacement for MW-06, as described in Section 4.1) were sampled in accordance with the standards and methodology outlined in the March 2017 PRSCP. More detail about the monitoring and sampling event are included in **Section 4**.

2.2 Inspection Findings

Visual inspections were performed on all the OU-1 remedy components by AWI on the following dates:

- December 16, 2017
- June 22, 2018
- December 24, 2018
- March 19, 2019
- August 16, 2019
- June 5, 2020

The OU-1 remedy periodic inspections followed the protocols outlined in **Section 2.1** using the checklists provided in the original March 2017 PRSCP. Formal documentation of these inspections is contained in **Appendix A.2** for each of the dates noted above.

Throughout the six inspection periods, there were no significant problems in the various remedy components noted by the AWI personnel performing the work. Aside from some minor ponding that was observed in one of the landfill cap swales, minimal bare spots needing revegetation, or small mimosa trees beginning to take root at different locations on some of the components (cap, wall, slope), the remedy as a whole was intact, functioning properly and protective of infiltration reaching the landfill. These minor issues were corrected by AWI personnel throughout the year (i.e., weeding, seeding, removing debris, etc.). The water basins and stormwater conveyance systems were noted as functioning as designed during this time period.

On October 7, 2020, a formal visual inspection was performed by a PE as required per the 2017 PRSCP. The purpose of the inspection was to document the condition of the various components of the remedy. Similar to the yearly inspections performed by AWI, the checklists were used to evaluate the integrity of the GCL cap and cover, the barrier wall, the water basins, and the stormwater conveyance system. In addition, photographs of the inspection were taken to provide documentation of the remedy and relay the necessary maintenance and repair items needed. Copies of the inspection checklists and photologs are contained in **Appendix A.3**.

The results of the PE inspection showed that the overall remedy was in good condition and protective. The MSE wall structure remained competent with no erosional issues. Though some saplings needed to be removed before deeper roots could develop, AWI's regular OM&M program appeared to be effectively managing the removal of unwanted vegetation. The water basins also appeared to be in good shape. Some debris was noted in the forebay that could potentially lead to obstruction and potential clogging of the box culvert drainage system. However, AWI's ongoing OM&M program includes periodic removal of obstructions in the basins. The landfill cap and cover appeared to be in very good shape especially considering that the construction was completed five years earlier. There was an excellent stand of vegetation that had taken root and proliferated throughout the cap. The pollinator species of grasses, weeds, and wildflowers had germinated throughout the cap and were self-propagating with no bare spots evident. Though much of the vegetation was in its dormant state due to the fall season and cold weather, it appeared that the landfill cap was densely covered and proliferating. The anchor trenches on the horizontal landfill surface were in good shape; well defined and conveying water. No ponding of stormwater was evident during the inspection.

However, some erosion was identified along the southern slope of the landfill, in the drainage swales conveying water off the slope. Due to significant drainage along these channels throughout the years, the top swale directing water to the west was seen to have sloughing of topsoil that exposed the fill material beneath the topsoil. It was noted that the geomembrane liner had not been exposed, but that it could occur in the future if not remedied. Similarly, the lower swale conveying runoff back to the east toward the plunge pool had filled in from the eroded cover material further

up-slope, thus impeding effective drainage. Consequently, recommendations were made to repair the drainage swales along this side of the landfill; and these recommendations were implemented. Photographs of the affected southern swales are included in the photolog of **Appendix A.3**. A discussion of the recommendations and documentation of the repair of these swales are presented in **Section 3**.

3. LANDFILL REPAIR WORK

During the October 7, 2020, inspection of the OU-1 remedy by the PE, some erosion was identified along the southern slope of the landfill cover, likely due to significant/much greater than expected rainfall events over the previous five years. The discussion below provides more detail about the findings and subsequent landfill repair activities.

3.1 Landfill Inspection Findings

Following the initial discovery of erosion along the southern slope, Ramboll conducted a subsequent site visit on October 23, 2020, to further inspect the drainage swale and specify the scope of repair work needed. Although some cover material (topsoil and fill material) had eroded from the swale, the underlying GCL membrane liner was not exposed. Therefore, in order to prevent further erosional sloughing from occurring and prevent the exposure of the membrane liner, Ramboll recommended repairing the damaged swales by armouring them with rip rap stone to allow the landfill to properly shed water on the southern side of the landfill while simultaneously protecting the cover material from eroding away from and off the slope.

3.2 Landfill Repair Work

Landfill repair work began during the week of December 7, 2020. KAM, Inc. (KAM), was contracted to perform the work, which was overseen by a Ramboll Professional Geologist (PG). As identified previously, the upper swale was designed to divert water from the top ridge of the landfill horizontal cover, down the southern slope and toward the west for approximately 400 feet. At that point, the upper swale connects to the lower swale, reverses direction and carries stormwater back to the east, where it ultimately discharges water to the rip rap channel leading to the plunge pool at the southeastern portion of the landfill.

Prior to starting the repair work, AWI facility personnel cleared the south side of the landfill of all weed and vegetative growth using an industrial mower and exposed the surface swales on the side slope. Using a mini excavator, KAM defined, cleaned out, and reshaped approximately 970 feet of 2 feet wide x 1-foot deep drainage swales on the south slope in both directions (west and east). After reshaping, KAM placed approximately 1,450 square yards of geotextile fabric (filter) to allow water to drain into the subsurface drainage layer beneath the surface trenches while minimizing the potential for sediment to enter the subsurface anchor trench. KAM then placed approximately 100 tons of rip rap in the trenches on top of the filter fabric to armor the swales and keep the surface drainage pathways open. Following the placement of rip rap, KAM reused topsoil (removed from the lower swale) to repair sloughing and disturbed areas. Straw matting was laid down and secured with staples over disturbed areas where the vegetative cover was stripped. Revegetation was not performed due to the seasonal time of year and the fact that the germination of the existing pollinator species will occur in the spring to start another growth of vegetation along the southern slope. A photolog of the repair work is included as **Appendix B**.

4. GROUNDWATER MONITORING

As described in the 2017 PRSCP, and identified in the 2014 RAWP, groundwater monitoring was conducted near the end of this first five year period to evaluate if impacts to the aquifer had occurred since the previous sampling event and subsequent to completion of the remedy. In preparation for this sampling event, Ramboll visited the site on October 6, 2020, to evaluate the condition of the groundwater wells. At that time, monitoring well MW-06 was observed to be damaged – it was filled in with soil and the upper PVC casing was missing. Consequently, MW-06 was properly abandoned on November 16, 2020, and a replacement well was installed (MW-06R) (these activities are presented in more detail in Sections 4.1.1 and 4.1.2). Groundwater samples were collected from wells MW-04, MW-05, and MW-05D on October 7, 2020, and a groundwater sample was collected from replacement well MW-06R on November 17, 2020. The groundwater sampling methodology and analytical results are presented in **Sections 4.2** and **4.3**, respectively.

4.1 Monitoring Well Replacement

4.1.1 Well Abandonment

Based upon the observed condition monitoring well MW-06, it was properly abandoned by over-drilling the well and filling the resulting borehole with cement/bentonite grout as described in the Region 4 EPA SESD Guidance Document - Design and Installation of Monitoring Wells (EPA, SESDGUID-101-R1, 2013). Prior to over-drilling, the existing steel flush mount cover was removed. Over-drilling was performed using 4.25-inch inside diameter (ID) hollow stem augers which were advanced over the well to the depth the well had originally been installed, which was 40 feet below ground surface (bgs). After the augers reached the final depth, a cement/bentonite grout was “tremied” to the bottom of the augers, filling the borehole from the bottom up. Displaced soil removed from the borehole was properly disposed of along with the other investigative derived waste (IDW) associated with installing, developing, and sampling the replacement well.

4.1.2 Well Installation

Replacement monitoring well MW-06R was installed 7 feet north of the former MW-06 location. Prior to installing MW-06R, Ramboll contacted the Underground Facility Protection Organization system to identify public underground utilities at the site and coordinated the completion of a private utility mark-out to identify potential utilities or subsurface structures near the drilling location.

The replacement well was installed in the same manner as MW-06, and in accordance with SESD Guidance Document - Design and Installation of Monitoring Wells (EPA, SESDGUID-101-R1, 2013). Specifically, the 2-inch diameter well was installed using 4.25-inch ID hollow stem augers advanced to a depth of 40 feet bgs, and screened from 30 to 40 feet (the same interval as MW-06). Prior to drilling, continuous soil sampling was conducted using direct-push technology (DPT) and a dual tube soil collection system. The soil cores were logged for material composition and were screened using a photoionization detector (PID) for health and safety purposes and to evaluate the possible presence of VOCs in the soil. The soil was also inspected for obvious signs of contaminant impact (i.e., visual staining and/or odor); none were observed.

The well was constructed with 10 feet of 0.006-inch slot, Schedule 40 PVC screen, and 30 feet of Schedule 40 PVC riser. A sand filter pack was installed between the well screen and the borehole wall, above which a hydrated bentonite seal was installed. The well was completed with a flush mount steel cover installed in a 2-foot square concrete pad. Steel bollards were installed on two sides of the concrete pad for protection. Following installation, the well was developed with an inertia-style pump and the well screen was surged until the purge water was relatively free of sediment. The well construction log is provided as **Appendix C.1**.

The drilling and sampling equipment were decontaminated before and after the well installation. The decontamination was performed in accordance with SESD Operating Procedure: Field Equipment Cleaning and Decontamination, Number SESDPROC-205-R3 (USEPA 2013). Soil cuttings generated from the well abandonment and well installation, as well as purge water generated during well development and sampling, were placed in Department of Transportation (DOT) approved 55-gallon drums. A composite soil sample was collected for disposal characterization and waste profiling. The IDW was transported offsite on December 10, 2020, by KAM, Inc., and disposed of at Clean Earth in Glencoe, Alabama.

4.2 Groundwater Sampling Methodology

Ramboll performed the groundwater sampling event by collecting samples from four groundwater monitoring wells at the AWI site (MW-04, MW-05, MW-05D, and MW-06R) following the methodologies specified in the PRSCP. Prior to purging and sampling the wells, an electronic water level meter was used to measure the depth to groundwater in each well (the depth to groundwater measurements are shown on the sampling logs presented in **Appendix C.2**). That data showed that the groundwater flow direction is to the southeast, which is consistent with the historic observed flow direction. A potentiometric surface map that shows the groundwater elevations and flow direction is presented as **Figure 1**.

The wells were purged and sampled in accordance with low-flow sampling protocols using a peristaltic pump attached to disposable tubing. The wells were considered to have been adequately purged when the temperature, pH, and specific conductance of the groundwater stabilized to ± 10 percent over three successive readings. In addition, turbidity was monitored and recorded during the low-flow purge. Because turbidity levels would not stabilize while purging MW-05 to values less than 10 NTUs, filtering was deemed necessary, and the groundwater was filtered through a 0.45-micron filter. Additionally, a separate “unfiltered” sample was also collected from MW-05 for comparison purposes. The purge logs for the October and November 2020 sampling event are included as **Appendix C.2**.

The collected samples were placed in clean, appropriately-preserved, laboratory-supplied containers. After the samples were placed into the containers, they were sealed, labelled, and placed on ice pending delivery under standard chain-of-custody procedures to Pace Analytical Services, LLC, a National Environmental Laboratory Accreditation Certification (NELAC) Program approved laboratory for analysis. As specified in the PRSCP, the samples were analyzed for the following parameters:

- VOCs using USEPA Method SW-846 Method 8260;
- SVOCs using USEPA Method SW-846 Method 8270;
- Priority Pollutant and Resource Conservation and Recovery Act metals by USEPA Method 7471A and 6010B; and,
- PCBs using USEPA Method 8082A.

4.3 Groundwater Analytical Results

The analytical data from the groundwater sampling event conducted in 2020 are discussed below and summarized in **Table 1**. The detected groundwater constituents are presented in **Figure 2**, and the complete laboratory analytical reports are included as **Appendix C.3**.

In summary, very few constituents were detected in the groundwater and, for the ones that were detected, neither their presence nor their concentrations are considered notable. Specifically:

- SVOCs were not detected in the groundwater; this is consistent with historic groundwater data;
- PCBs were not detected in the groundwater; this is consistent with historic groundwater data;
- Two VOCs were detected, as follows:

- Methyl-tert-butyl ether (MTBE) was detected in MW-05 at a concentration of 2.1 µg/L, which is less than the regional screening level (RSL) of 14 µg/L for tap water. In the previous groundwater sampling event (May 2011), MTBE was detected in wells MW-04 and MW-06 at concentrations of 0.33 and 0.4 µg/L, respectively. MTBE is a common gasoline additive and is not known to be related to the site.
- Chloromethane was detected in MW-06R at a concentration of 1.6 µg/L, which is less than the RSL of 190 µg/L for tap water. In the previous groundwater sampling event (May 2011), chloromethane was not detected. Chloromethane is often present as a breakdown product of chlorine when added to potable water and is not known to be related to the site.
- Two inorganic compounds were detected, as follows:
 - Barium was detected in three of the four monitoring wells that were sampled (MW-04, MW-05 and MW-06R) at concentrations ranging from 60.7 µg/L to 86.8 µg/L. None of the barium detections exceeded the RSL of 3,800 µg/L for tap water nor the federal maximum contaminant level (MCL) of 2,000 µg/L. In the previous groundwater sampling event (May 2011), barium was detected in the same wells at concentrations ranging from 56.0 µg/L to 77.8 µg/L. Barium is a naturally occurring component of soil and therefore is often present in groundwater at low concentrations and is not known to be related to the site.
 - Mercury was detected in MW-04 at a concentration of 0.32 µg/L, which is less than the RSL of 0.63 µg/L for tap water and the federal MCL of 2 µg/L. In the previous groundwater sampling event (May 2011), mercury was not detected. Mercury is a naturally occurring component of soil and therefore is often present in groundwater at low concentrations, and is not known to be related to the site.

5. CONCLUSIONS AND PATH FORWARD

Based on the results of the five year inspection, Ramboll concludes the following:

- The remedy components, including the landfill cap, water basins, barrier wall, stormwater conveyance system, and anchor trenches are all in good condition, and continue to be effective at meeting the four Remedial Action Objectives (RAOs) outlined in the Engineering Evaluation/Cost Analysis (EE/CA) formally approved by USEPA in the Action Memorandum dated July 25, 2013. These RAOs are identified as:
 - Limit the potential for PCBs in surface soil to migrate outside of OU-1;
 - Limit the potential for vertical and lateral migration of PCBs within the landfill and potential migration from the landfill;
 - Limit surface water seepage from the landfill; and,
 - Contain contaminated sediment in the drainage swale.
- Following the repair of the southern slope drainage channels, stormwater runoff from the landfill should occur easily and without erosion along the southern slope; and,
- The groundwater flow direction and analytical results are similar to those observed historically in the past, and demonstrate that the groundwater in proximity to the landfill is not impacted.

The OU-1 WWTP Landfill continues to be well protected by the remedy components installed per the design requirements outlined in the RAWP to achieve the objectives identified in the Action Memorandum. The cap, wall, and stormwater conveyance system have worked together to prevent the infiltration of water into the landfill, and to facilitate the removal of water/precipitation from the landfill's capped surface. With the recent repair of the southern slope swales, the remedy is expected to provide this protection into the foreseeable future.

Although the 2017 PRSCP itself covered only five (5) years of monitoring, Ramboll recommends that AWI continue to monitor the system on a semi-annual basis and keep formal records to document the continued integrity of the remedy and its components (using, for example, the checklists from the 2017 PRSCP) until a Record of Decision ("ROD") is issued for the entire Armstrong World Industries Superfund site.

6. REFERENCES

- ENVIRON, 2013. Removal Action Final Report for the WWTP Landfill, Operable Unit-1; Armstrong World Industries, Inc., 4520 Broadway Macon, Georgia. October.
- Ramboll Environ, 2014. Remedial Action Work Plan, WWTP Landfill, Operable Unit-1; Armstrong World Industries, Inc., 4520 Broadway Macon, Georgia. October.
- Ramboll Environ, 2016. Engineering Evaluation / Cost Analysis, Revision 1, WWTP Landfill, Operable Unit-1; Armstrong World Industries, Inc., 4520 Broadway Macon, Georgia. February.
- Ramboll Environ, 2017. Post Removal Site Control Plan; Armstrong World Industries, Inc., 4520 Broadway Macon, Georgia. March.
- Region 4 EPA SEDS Guidance Document - Operating Procedure for Design and Installation of Monitoring Wells (EPA, SEDSGUID-205-RI, 2013).
- USEPA, 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA: Interim Final (EPA/540/G-89/004). Office of Solid Waste and Emergency Response (OSWER). Washington DC.
- USEPA, 1993. Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA (EPA540-R-93-057). Office of Solid Waste and Emergency Response (OSWER) Washington DC.

TABLE

Table 1 - Summary of Groundwater Analytical Results
Operable Unit 1
Armstrong World Industries (EPA ID#: GAN000410033)

<i>Sample ID</i> <i>Sample Date</i>	Tap Water RSL ¹	Federal MCL ²	MW-04 10/7/2020	MW-04 Field Duplicate 10/7/2020	MW-05 10/7/2020	MW-05 Field Filtered 10/7/2020	MW-05D 10/7/2020	MW-06R 11/19/2020
VOCs by USEPA Method 8260D								
Methyl-tert-butyl ether	14	---	<1.0	<1.0	2.1	NA	<1.0	<1.0
Chloromethane	190	---	<1.0	<1.0	<1.0	NA	<1.0	1.6
Metals by USEPA Method 6010D								
Barium	3,800	2,000	68.7	70.5	86.8	87.4	<10.0	60.7
Mercury by USEPA Method 7470A								
Mercury	0.63	2	0.32	0.31	<0.20	<0.20	<0.20	<0.20

Notes:

All concentrations are presented in ug/L (parts per billion)

Only compounds with at least one detection are shown

NA - Not analyzed

(1) USEPA Tap Water Regional Screening Levels with a target cancer risk of 1E-06 and a target hazard quotient of 1.0

((<https://semspub.epa.gov/work/HQ/400431.pdf>; November 2020)

(2) USEPA Maximum Contaminant Levels (https://www.epa.gov/sites/production/files/2016-06/documents/npwdr_complete_table.pdf; May 2009)

< Analyte was not detected at the laboratory reporting limit indicated

Due to high turbidity, a field filtered sample (0.45 micron) was collected from MW-05 and analyzed for metals and PCBs

For QA/QC purposes, a field duplicate sample was collected from MW-04

FIGURES



RAMBOLL

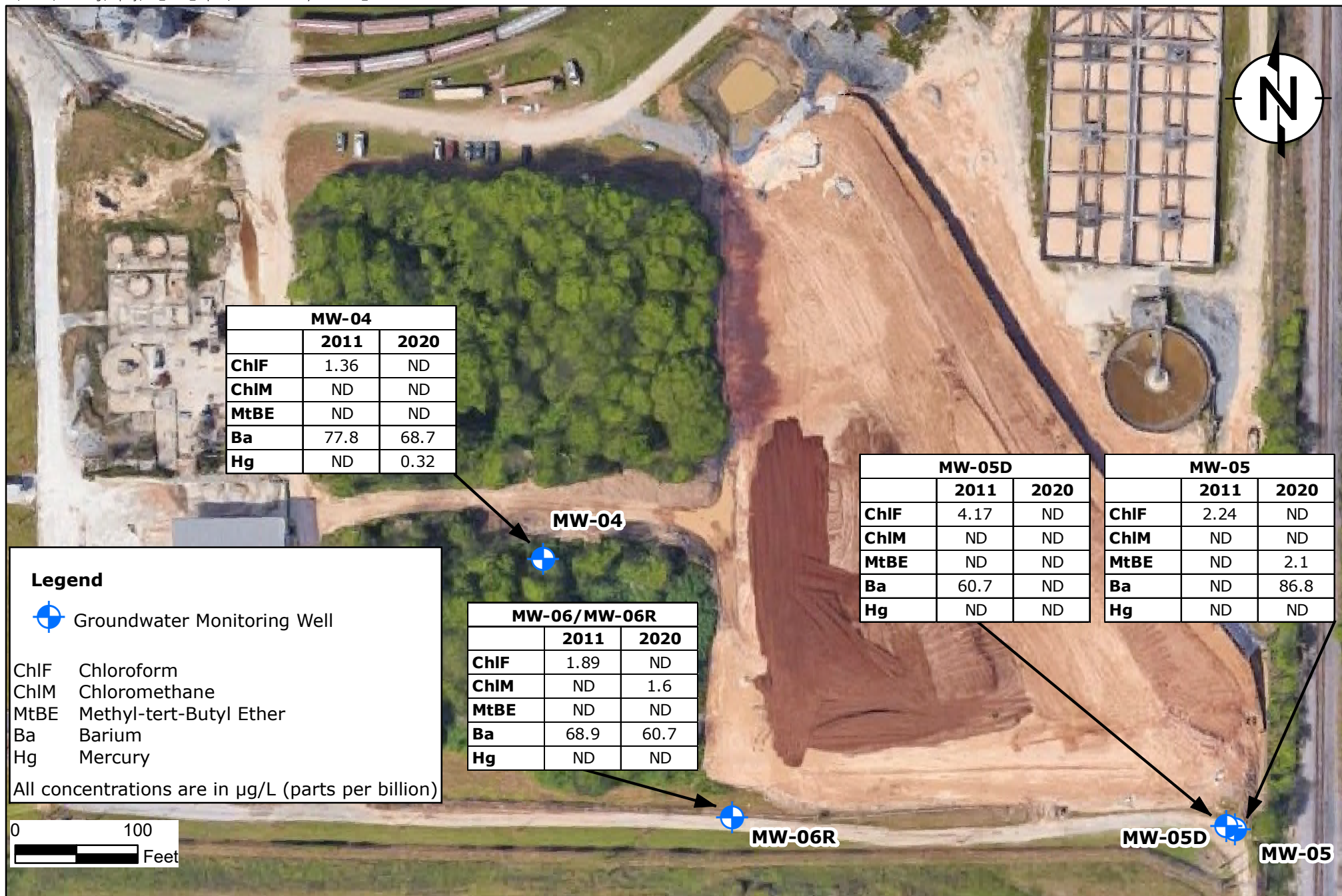
DRAFTED BY: BB

DATE: 1/28/2021

POTENTIOMETRIC SURFACE MAP
 NOVEMBER 19, 2020
 ARMSTRONG WORLD INDUSTRIES
 MACON, BIBB COUNTY, GEORGIA

FIGURE
1

1690018899



GROUNDWATER ANALYTICAL RESULTS
OCTOBER/NOVEMBER 2020
ARMSTRONG WORLD INDUSTRIES
MACON, BIBB COUNTY, GEORGIA

FIGURE
2

1690018899

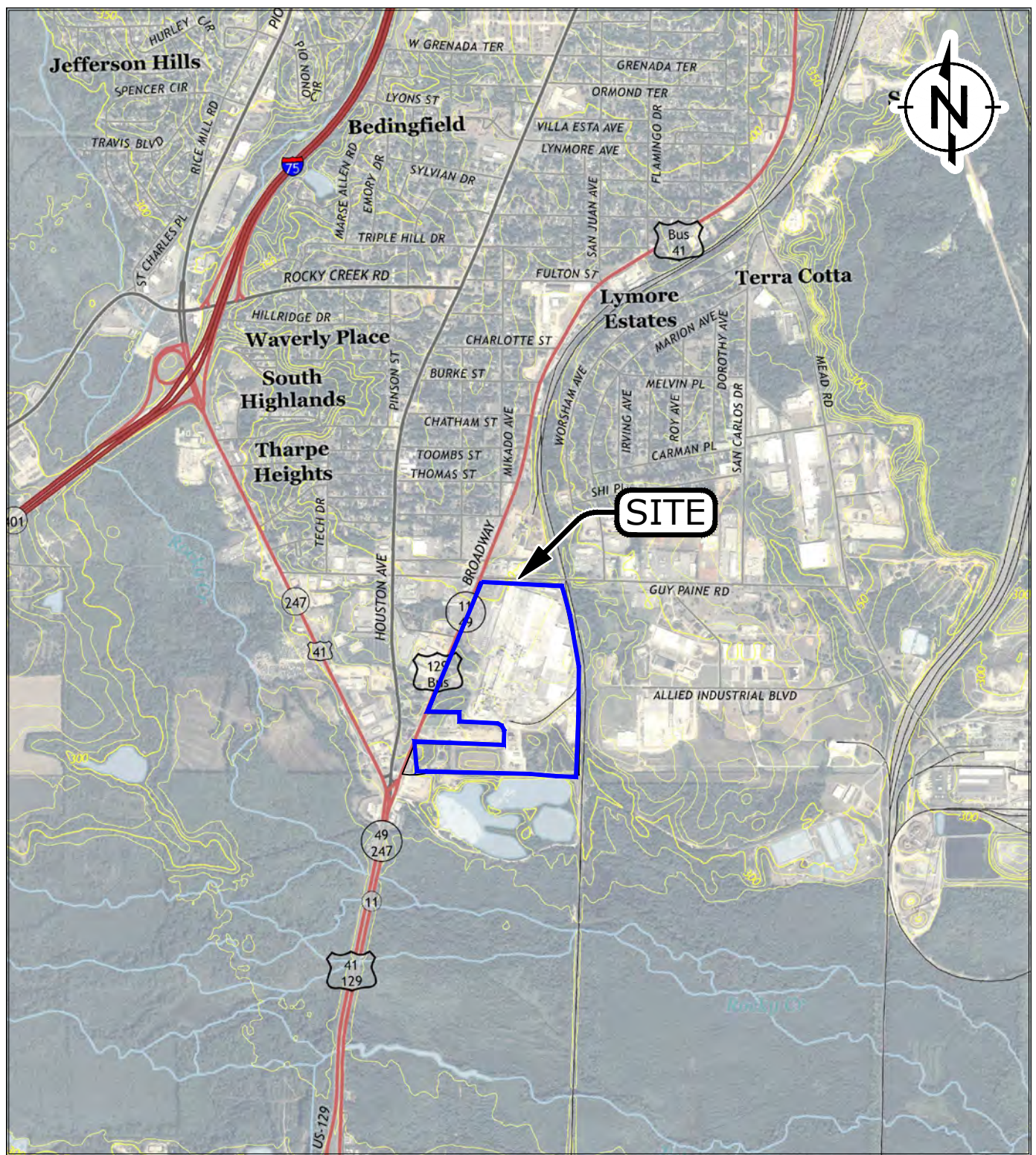
APPENDIX A

INSPECTION DOCUMENTATION

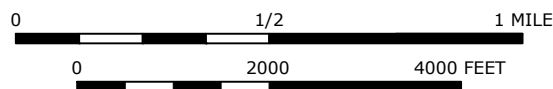
- **PRSCP FIGURES**
- **INSPECTION CHECKLISTS**
- **PE INSPECTION CHECKLIST AND PHOTOLOG**

APPENDIX A.1

PRSCP FIGURES



CONTOUR INTERVAL 10 FEET



LEGEND:

— PROPERTY BOUNDARY
(APPROXIMATE)

SOURCE:
2014 USGS 7.5 Minute Series Macon West, Georgia Topographic Quadrangle.
Site Location; N: 32.776894° W: 83.653438° WGS84



QUADRANGLE LOCATION

RAMBOLL ENVIRON

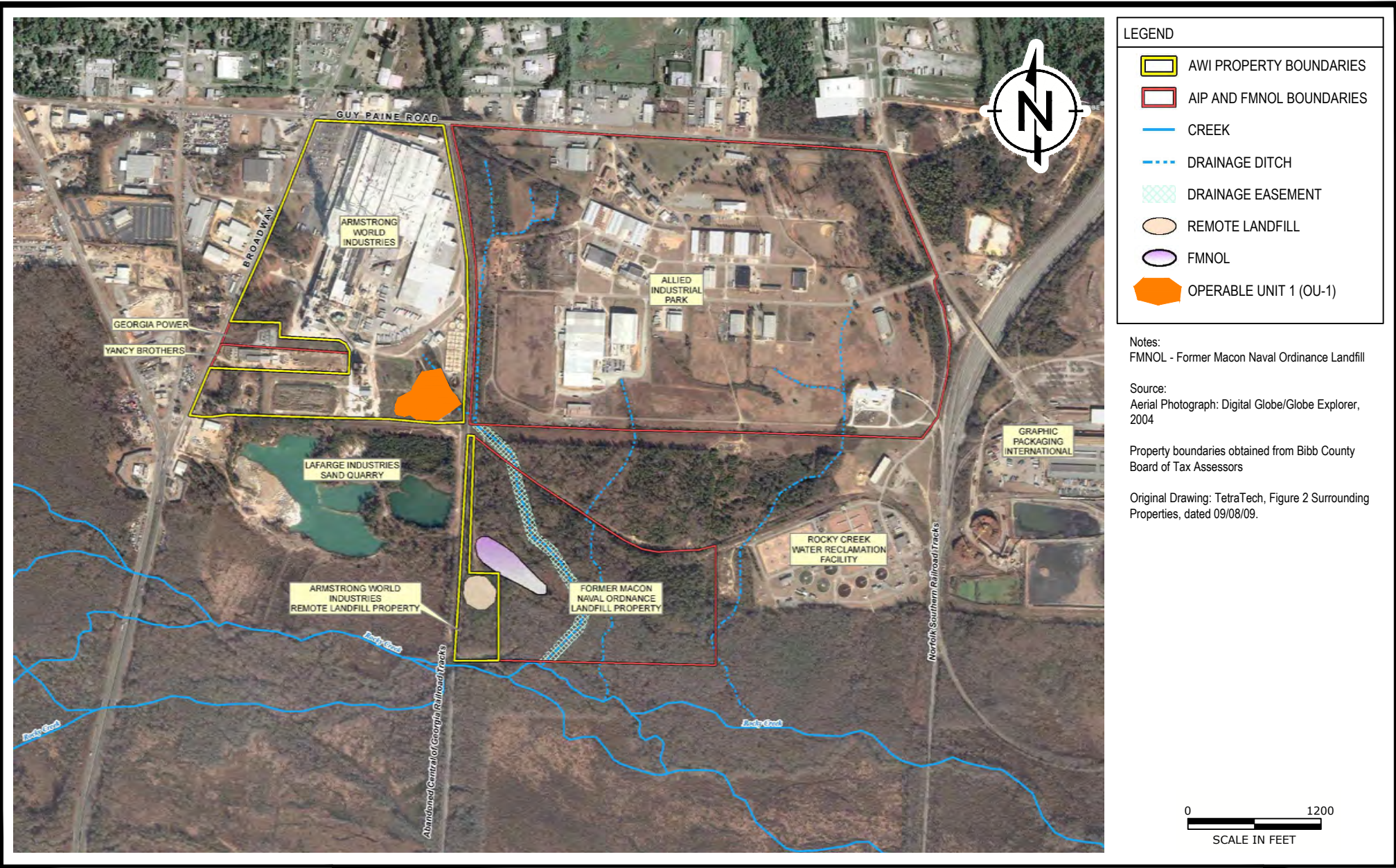
SITE LOCATION
ARMSTRONG WORLD INDUSTRIES
MACON, GEORGIA

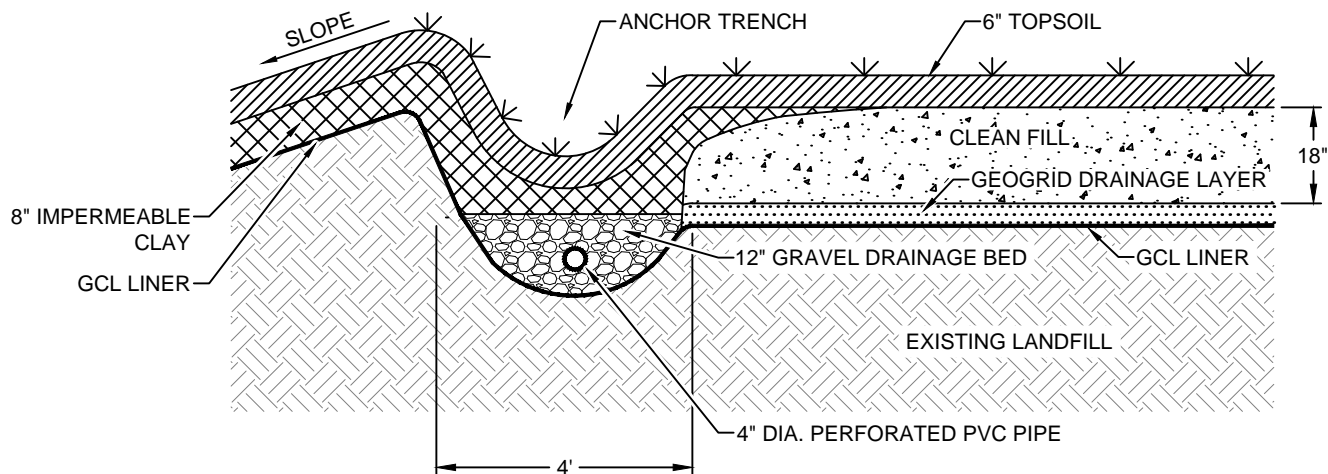
FIGURE
1

DRAFTED BY: CKL

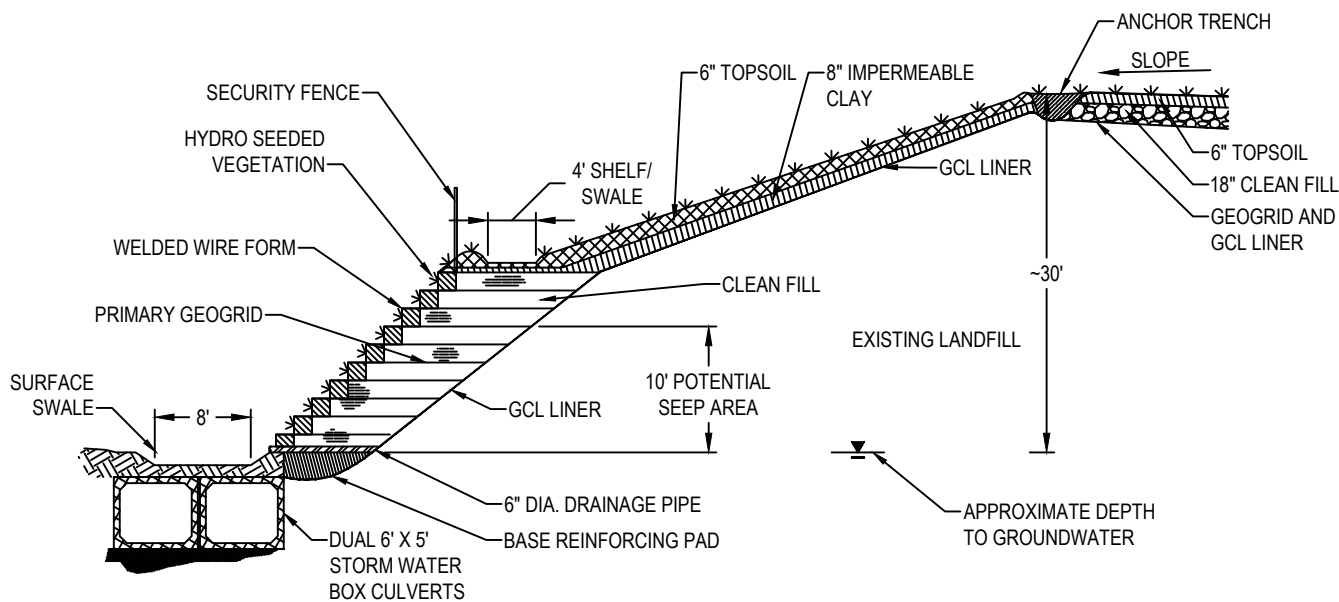
DATE: 8/16/16

0738621A



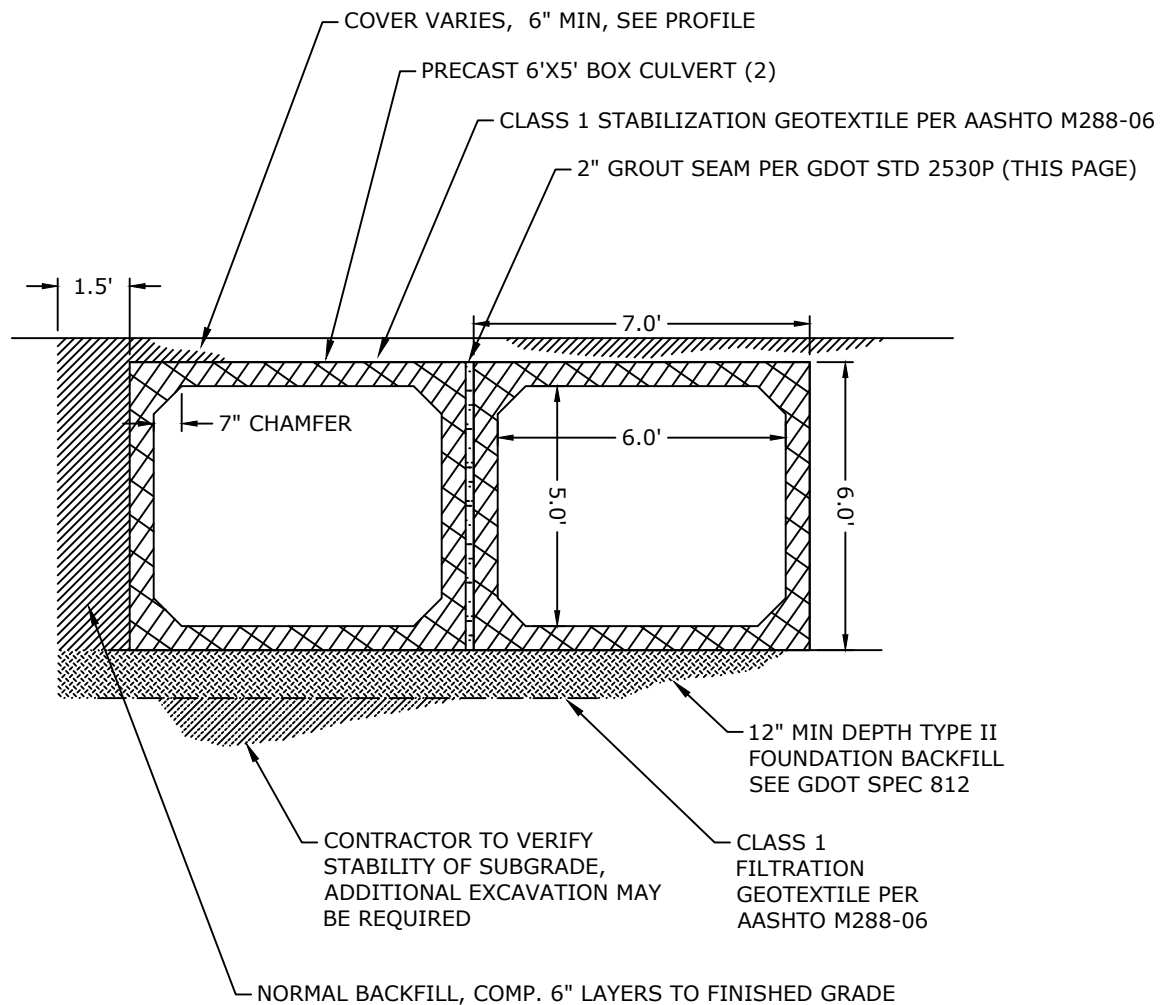


LANDFILL SURFACE



EASTERN EMBANKMENT

L:\Loop Project Files\00_CAD FILES\07\DB&R_AWT OU-1 Remedy Construction 0738621A\2016-08\04_Storm Water Box Culvert Details.dwg



NOTES:

SEE SHEET C-2 FOR SECTION PLANIMETRIC LOCATIONS.

CULVERT AGGREGATE BASE SHALL BE TYPE II FOUNDATION BACKFILL PER GDOT SPECIFICATION 812. AGGREGATE PER GDOT SPECIFICATION 800 AND STANDARD OPERATING PROCEDURE 1.

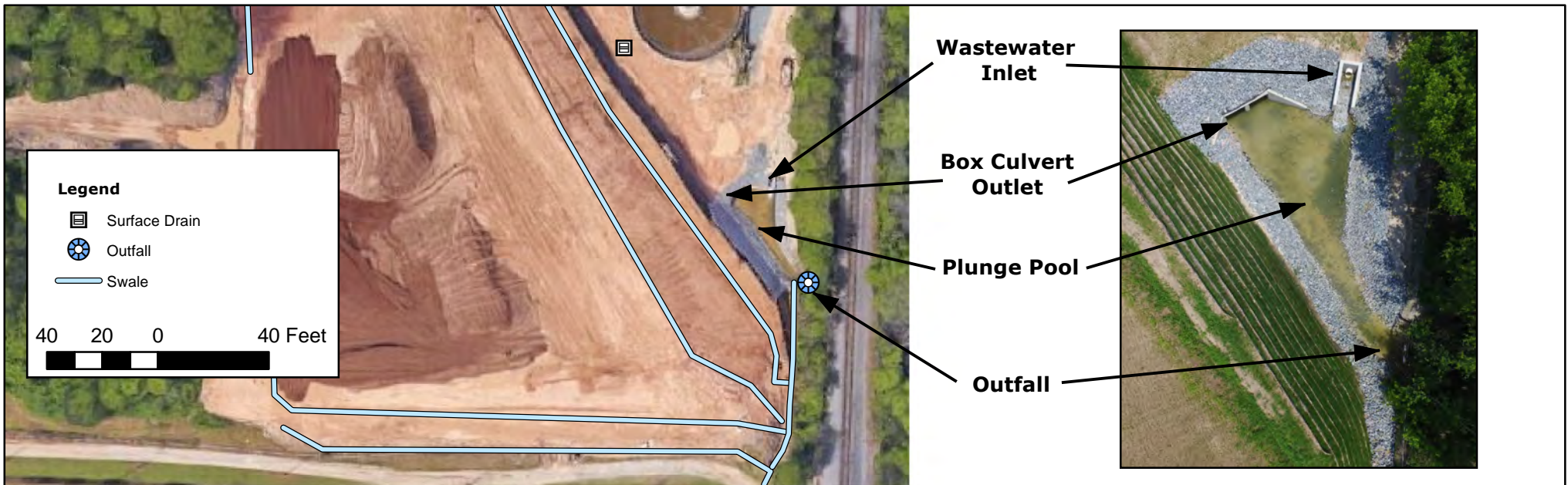
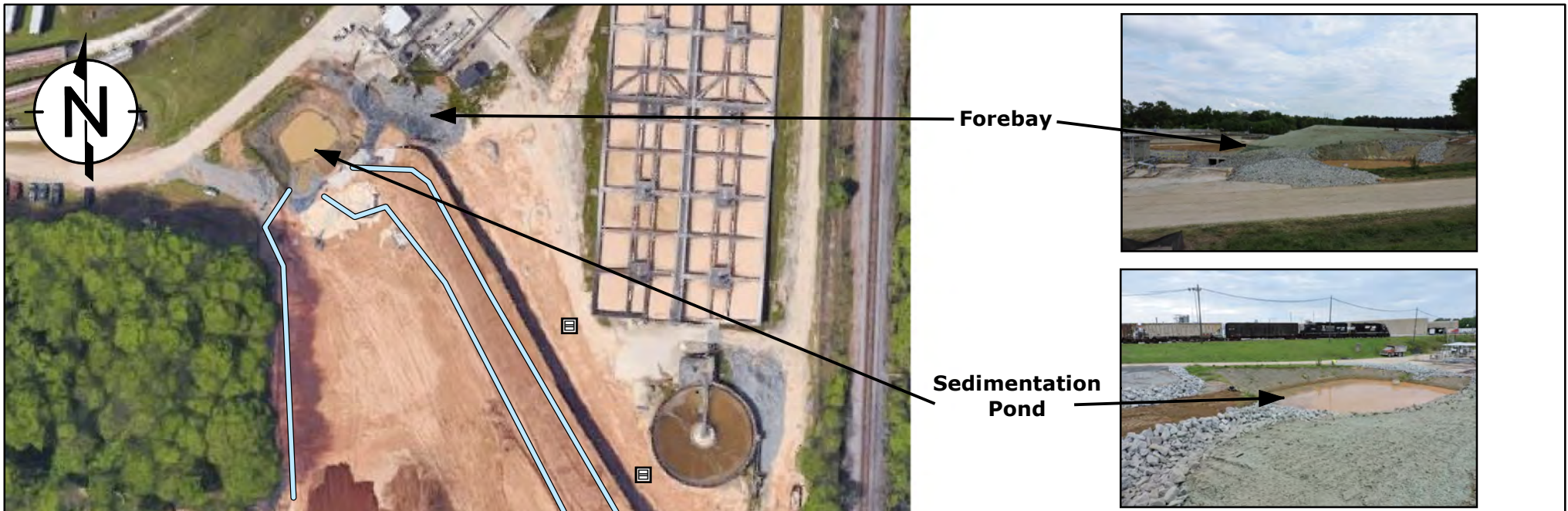
CONTRACTOR SHALL FIELD VERIFY STABILITY OF MATERIAL BELOW SUBGRADE, AND INFORM ENGINEER OF UNSUITABLE BEDDING MATERIAL. ADDITIONAL EXCAVATION MAY BE NECESSARY.

CLASS 1 FILTRATION (PERMEABLE) GEOTEXTILE FABRIC SHALL BE PROVIDED BELOW CULVERT AGGREGATE BASE, TO PREVENT SUBGRADE MIGRATION INTO BASE.

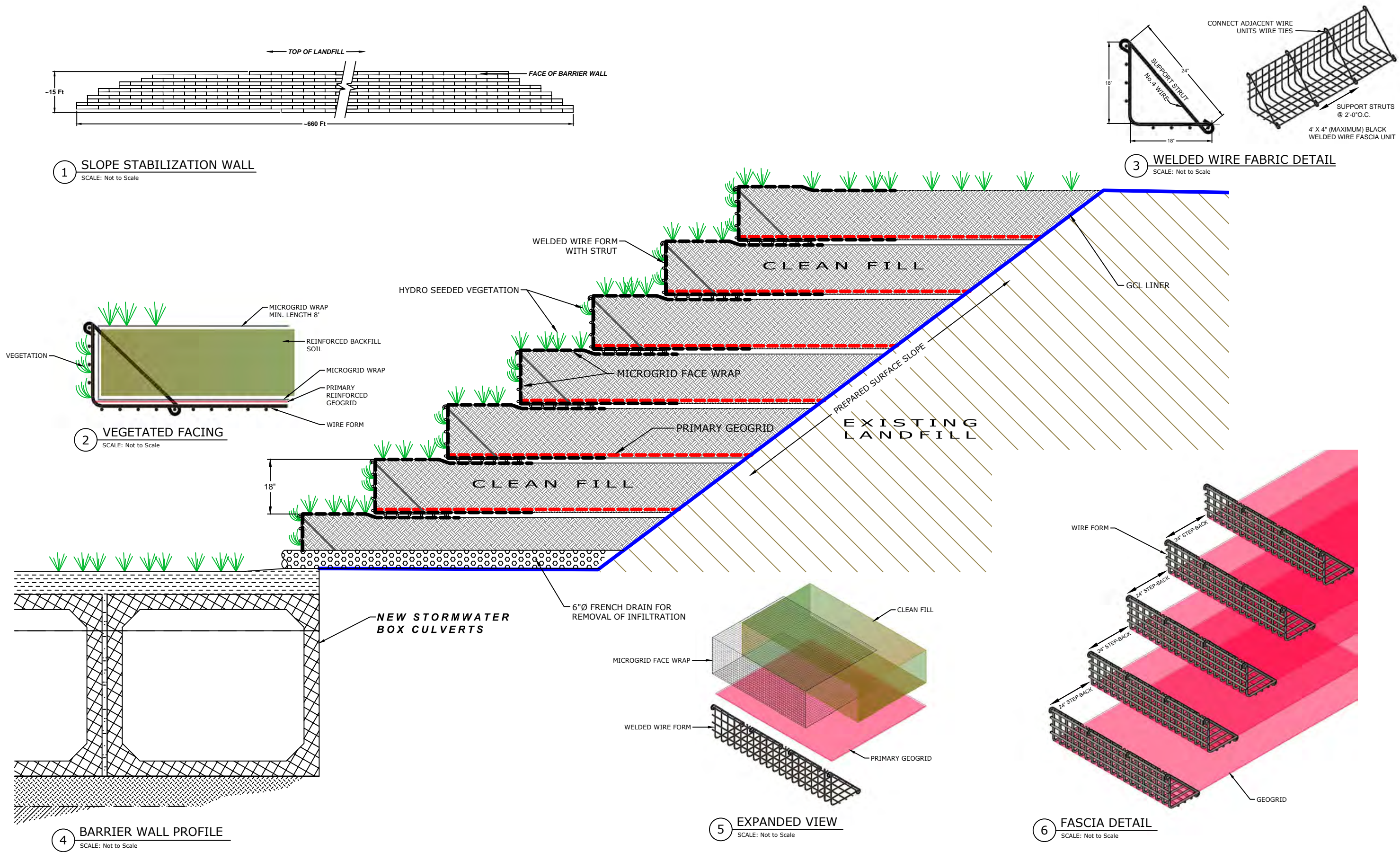
CLASS 1 STABILIZATION (IMPERMEABLE) GEOTEXTILE FABRIC SHALL BE PROVIDED ABOVE CULVERT AFTER PLACEMENT, TO PREVENT BACKFILL FROM ENTERING CULVERT SEAMS IN CASE OF MINOR SETTLING.

ALL MATERIAL EXCAVATED FROM THE EXISTING DRAINAGE CONVEYANCE SHALL BE SPOILED IN THE ON-SITE LANDFILL UNDER THE PROPOSED GCL CAP.





L:\Loop Project Files\00_CAD FILES\07\DB&R_AWI OU-1 Remedty Construction 0738621A\2016-08\05_Barrier Wall Details.dwg



REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			

DRAWING INFO.	
PROJECT #:	0738621A
DESIGNED:	KAC
APPROVED:	KAC
DRAFTER:	CKL
DATE:	9/26/16



GROUNDWATER MONITORING WELLS

ARMSTRONG WORLD INDUSTRIES
MACON, BIBB COUNTY, GEORGIA

FIGURE

7

APPENDIX A.2

INSPECTION CHECKLISTS

- **DECEMBER 16, 2017**
- **JUNE 22, 2018**
- **DECEMBER 24, 2018**
- **MARCH 19, 2019**
- **AUGUST 16, 2019**
- **JUNE 5, 2020**

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Keith Youmans

Inspection Date 12-16-17

General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the cover maintained or mowed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Center East side of Swale water runoff with some signs of ponding during heavy rain events.	
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Keith Youmans Inspection Date 12-16-17

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Keith Youmans

Inspection Date 12-16-17

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Are there signs of erosion along sides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the forebay clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are the discharge pipes clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the outfall clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Keith Youmans

Inspection Date 12-16-17

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Center East side of Swale water runoff with some signs of ponding during heavy rain events.	
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there any dead vegetation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Michael Poythress

Inspection Date 6-22-18

General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the cover maintained or mowed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress Inspection Date 6-22-18

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress

Inspection Date 6-22-18

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Are there signs of erosion along sides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the forebay clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are the discharge pipes clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the outfall clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress

Inspection Date 6-22-18

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Michael Poythress

Inspection Date 12-24-18

General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Winter season	
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the cover maintained or mowed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress Inspection Date 12-24-19

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Winter season	
3. Are there any trees (deep-rooted vegetation)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress

Inspection Date 12-24-19

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Are there signs of erosion along sides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Winter season	
2. Is the forebay clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are the discharge pipes clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is the outfall clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress Inspection Date 12-24-18

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Winter season	
3. Are there any trees (deep-rooted vegetation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Mimosa trees present. nonedeep rooted.	pulled out minosa trees.
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Michael Poythress

Inspection Date 3-20-19

General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Vegetative Cover		
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Is the cover maintained or mowed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress Inspection Date 03-20-19

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Some bare spots.	
Vegetative Cover			
1. Are there bare spots in the cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Small Mimosa tress present	
4. Is there evidence of burrowing animals?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Removed Mimosa tress.

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress

Inspection Date 03-20-19

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Some bare spots.	
4. Are there signs of erosion along sides?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the forebay clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Small Mimosa tress present	
3. Are the discharge pipes clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Removed Mimosa tress.
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the outfall clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress

Inspection Date 3-20-19

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Some bare spots.	
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Small Mimosa tress present	Removed Mimosa tress.
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Small Mimosa trees present. not deep rooted.	Removed Mimosa trees.
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Austin Gonzealez / Michael Poythress Inspection Date 8-16-19

General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the cover maintained or mowed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress / Austin Gonzales Inspection Date 8-16-19

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Michael Poythress / Austin Gonzales Inspection Date 8-16-19

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Are there signs of erosion along sides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the forebay clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are the discharge pipes clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is the outfall clear of debris?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Austin Gonzealez / Michael Poythress Inspection Date 8-16-19

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1 GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections

Year 3 through Year 5 – Semi-annual Inspections

Inspected by Austin Gonzalez

Inspection Date 6/5/2020

General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?		
3. Are there cracks in the soil due to dry conditions?		
Vegetative Cover		
1. Are there bare spots in the cover?		
2. Is there any dead vegetation?		
3. Are there any trees (deep-rooted vegetation)?		
4. Is there evidence of burrowing animals?		
5. Is the cover maintained or mowed?		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A1

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. If yes, is the exposed GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Manhole			
1. Is the manhole clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the pipe intact (no evidence of crushing or detachment)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Austin Gonzalez Inspection Date 6/5/2020

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there evidence of damage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is there any debris blocking the grate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Outlet at Plunge Pool			
1. Is debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the water free flowing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3 Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Austin Gonzalez

Inspection Date 6/5/2020

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is the outlet clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
3. Is the rip rap along drainage runs intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Are there signs of erosion along sides?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Forebay			
1. Is the liner intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the forebay clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are the discharge pipes clear of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2. Is the plunge pool clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the outfall clear of debris?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is the rip rap intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is water free flowing through the outfall?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Austin Gonzalez

Inspection Date 6/5/2020

3:1 Slope - General	Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Is the GCL exposed? If so, is the GCL damaged? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3:1 Slope - Vegetative Cover		
1. Are there bare spots in the cover? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Is the GCL exposed? If so, is the GCL damaged?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion within the baskets?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there signs of slippage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there cracks in the soil due to dry conditions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any dead vegetation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Are there any trees (deep-rooted vegetation)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Is there evidence of burrowing animals?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Top of Wall - Drainage Swale			
1. Is there standing water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2. Is there any debris present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

APPENDIX A.3

PE INSPECTION CHECKLISTS AND PHOTOLOG (OCTOBER 7, 2020)

AWI OU-1 Post Removal Monitoring and Maintenance Form A1

GCL Cap Checklist

Inspection Schedule

Year 1 through Year 2 – Quarterly Inspections
Year 3 through Year 5 – Semi-annual Inspections

Inspected by

Keith Cole, P.E.

Inspection Date

10/7/2020

General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	Yes <input checked="" type="radio"/> No	On back side (south) of cap @ transition from horiz. to slope sloughing can be seen - sand exposed	Crush-n-Run might be a good replacement filler in this area to prevent similar occurrence in future.
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Good drainage throughout. Anchor trenches & swales are overgrown w/ vegetation, but still functioning	None
3. Are there cracks in the soil due to dry conditions?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Irrigation system was a good idea to prevent drought & keeps vegetation flourishing.	None
Vegetative Cover			
1. Are there bare spots in the cover?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Great cover by many different types of vegetation	None
2. Is there any dead vegetation?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Dead vegetation is natural & being supplanted by new sprouts.	None
3. Are there any trees (deep-rooted vegetation)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No significant trees of size growing. Saplings should be cut upon discovery	None
4. Is there evidence of burrowing animals?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No burrowing animals seen or holes of substance	None
5. Is the cover maintained or mowed?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Pathway was mowed for me. Should maintain	None

**AWI OU-1 Post Removal Monitoring and Maintenance
Form A1**

GCL Cap Checklist

Drainage Swales		Observation Notes	Repair Notes
1. Is there standing water?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Swales & anchor trenches had No standing water.	None
2. Is there any debris present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Cap is in good shape & functioning as pollinator. No debris is put on the cap	None
GCL Exposed			
1. Is GCL exposed anywhere on the cover?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No GCL is exposed. Only weed mat for pathway	None
2. If yes, is the exposed GCL damaged?	Yes <input type="radio"/> No <input checked="" type="radio"/>	NA	None
Manhole			
1. Is the manhole clear of debris?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Manhole is visible & accessible. Some vegetative growth around it, but O.K.	None
Drainage Pipe on Southeastern Corner			
1. Is the pipe clear of debris?	Yes <input type="radio"/> No <input checked="" type="radio"/>	?	Could Not Locate
2. Is the pipe intact (no evidence of crushing or detachment)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	?	- Overgrown in this area

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Inspection Schedule

Year 1 through Year 5 - Semi-Annual Inspections

Inspected by

Keith Cole, P.E.

Inspection Date

10/7/2020

Sedimentation Basin		Observation Notes	Repair Notes
1. Are there cracks in the soil due to dry conditions?	Yes <input checked="" type="radio"/> No	Sedimentation basin holding water	None
2. Is the outlet clear of debris?	Yes <input type="radio"/> No		
3. Is the rip rap along drainage runs intact?	Yes <input checked="" type="radio"/> No	Rip rap maintaining erosion protection. Overgrown w/ vegetation	Spray / Kill / Remove vegetation to allow better observations
4. Are there signs of erosion along sides?	Yes <input checked="" type="radio"/> No	From what I could see, no erosion was taking place	" "
Forebay			
1. Is the liner intact?	Yes <input checked="" type="radio"/> No	Forebay liner & rip rap are intact & no erosion was visible	None
2. Is the forebay clear of debris?	Yes <input checked="" type="radio"/> No	There is some debris caught at the discharge of the forebay to the box culverts.	Clear Debris Clear vegetation
3. Are the discharge pipes clear of debris?	Yes <input checked="" type="radio"/> No	Discharge pipes from sed. basin storm pipes, & WWTP are clear of debris	None
4. Is the rip rap intact?	Yes <input checked="" type="radio"/> No	Rip rap is jagged shape	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A3

Water Basins Checklist

Plunge Pool/Outfall		Observation Notes	Repair Notes
1. Is the liner intact?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Liner is intact & in good shape.	None
2. Is the plunge pool clear of debris?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Plunge pool is clear of any debris (fast moving water)	None
3. Is the outfall clear of debris?	<input checked="" type="radio"/> Yes <input type="radio"/> No	New RR outfall is clear of debris	None
4. Is the rip rap intact?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Rip rap is in good shape	None
5. Is water free flowing through the outfall?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Water flows freely through outfall	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2 Box Culvert System Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by

K. D. Blue, P.E.

Inspection Date

10/7/2020

Top Fill		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Surface over box culverts is in good shape. Solid!	None
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No erosion @ inlet or outlet of culvert system.	None
3. Are there cracks in the soil due to dry conditions?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Surface over culverts is in excellent shape. Drivable by heavy vehicles	None
Vegetative Cover			
1. Are there bare spots in the cover?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Great vegetative cover (grass) over culverts	None
2. Is there any dead vegetation?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Good, healthy stand of grass.	None
3. Are there any trees (deep-rooted vegetation)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Close clipped grass recently mowed. Accessible	None
4. Is there evidence of burrowing animals?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Solid surface - No holes	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Final Clarifier		Observation Notes	Repair Notes
1. Is there evidence of leaking?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Discharge pipe is flowing well through UG pipe system	None
2. Is there evidence of damage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Competent surface. No erosion, No damage.	None
3. Is there any debris blocking the grate?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Free flow of effluent from clarifier to plunge pool.	None
Clarifier Line Connection - Aeration Basin Emergency Discharge			
1. Is there evidence of leaking?	Yes <input type="radio"/> No <input checked="" type="radio"/>	All connections (emergency) & inlets for surface flow are intact.	None
2. Is there evidence of damage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No damage to inlet grates or valve mth.	None
3. Is there any debris blocking the grate?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Minor vegetative covering. - Not impeding flow.	Maintain open grates free of vegetative cover (spray/kill) remove weeds

AWI OU-1 Post Removal Monitoring and Maintenance

Form A2

Box Culvert System Checklist

Clarifier Line Connection - Surface Water Drain at Southwest Corner of Aeration Basin			
1. Is there evidence of leaking?	Yes <input type="radio"/> No <input checked="" type="radio"/>	See Above, clear	None
2. Is there evidence of damage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	" "	None
3. Is there any debris blocking the grate?	Yes <input type="radio"/> No <input checked="" type="radio"/>	" "	None
Inlet at Forebay		Observation Notes	Repair Notes
1. Is debris present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Some Vegetation (sticks) is caught at culvert. Not significant.	Remove debris. spray/hill / Remove vegetation in forebay
2. Is the water free flowing?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Water is flowing freely. No significant blockage	" "
Outlet at Plunge Pool			
1. Is debris present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Free flowing water at outlet of box culverts	None
2. Is the water free flowing?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Good flow, open exit, fast moving water discharge from WWTP	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Inspection Schedule

Year 1 through Year 5 – Semi-Annual Inspections

Inspected by Keith Cole, P.E. Inspection Date 10/7/2020

3:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	Yes <input checked="" type="radio"/> No	No erosion, subsidence, or water ponding	None
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	Yes <input checked="" type="radio"/> No	No soil cracking, sloughing, or erosion visible	None
3. Are there cracks in the soil due to dry conditions?	Yes <input checked="" type="radio"/> No	No cracking. Wall lands, & baskets in good shape	None
5. Is the GCL exposed? If so, is the GCL damaged?	Yes <input checked="" type="radio"/> No Yes <input checked="" type="radio"/> No	No exposure of GCL. GCL behind baskets.	None
3:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	Yes <input checked="" type="radio"/> No	Some baskets are exposed, but not significantly. Not a detriment.	None
2. Is there any dead vegetation?	Yes <input checked="" type="radio"/> No	Some grasses have died due to heat (rye) but will re germinate in colder weather.	None
3. Are there any trees (deep-rooted vegetation)?	Yes <input checked="" type="radio"/> No	Not significant trees. Some saplings have started to take root. Not big yet.	Should cut down saplings now before they get sufficient size to cause a problem.
4. Is there evidence of burrowing animals?	Yes <input checked="" type="radio"/> No	No holes visible, indicating burrowing animals.	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

1:1 Slope - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No erosion, subsiding or sloughing was visible	None
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No preferential pathways visible where stormwater is draining.	None
3. Is the GCL exposed? If so, is the GCL damaged?	Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/>	No GCL exposed. It is behind the baskets	None
1:1 Slope - Vegetative Cover			
1. Are there bare spots in the cover?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Good cover by vegetation - Did not see exposed liner	None
2. Is there any dead vegetation?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Good vegetation growth Coverage is completely across the slope	None
3. Are there any trees (deep-rooted vegetation)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No trees or large shrubs present	None
4. Is there evidence of burrowing animals?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Heard ground animals, but saw no holes	None
1:1 Slope - Baskets			
1. Have the baskets collapsed or moved out of place?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Baskets are in place, solid & competent. Good condition	None
2. Are there signs of erosion within the baskets?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Baskets (the ones I could see) are full of soil.	None
3. Are there signs of slippage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Baskets are competent. In good condition	None

AWI OU-1 Post Removal Monitoring and Maintenance

Form A4

Barrier Wall Checklist

Top of Wall - General		Observation Notes	Repair Notes
1. Are there signs of subsidence (visible low spots where water is ponding)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Top of wall is solid. No subsidence	None
2. Are there signs of erosion (obvious paths where storm water is flowing, cracking of soil)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No drainage paths visible, outside of anchor trench.	None
3. Are there cracks in the soil due to dry conditions?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No soil cracking visible @ top of the wall	None
Top of Wall - Vegetative Cover			
1. Are there bare spots in the cover?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Lots of vegetation @ top of wall. No bare spots.	None
2. Is there any dead vegetation?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No dead vegetation. Wild flowers/weeds flourishing	None
3. Are there any trees (deep-rooted vegetation)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No deep rooted trees visible	None
4. Is there evidence of burrowing animals?	Yes <input type="radio"/> No <input checked="" type="radio"/>	No animals seen or holes identified	None
Top of Wall - Drainage Swale			
1. Is there standing water?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Could not access drainage swale. None seen from the top or bottom of wall	None
2. Is there any debris present?	Yes <input type="radio"/> No <input checked="" type="radio"/>		None

PHOTO LOG



Photo 1: Surface of horizontal cap over landfill. Good vegetative growth of the pollinator cap.



Photo 2: Well maintained growth throughout pollinator cap and established walking path.

PHOTO LOG



Photo 3: Evidence of erosion along the southern slope near the top ridge. Underlying fill material exposed.



Photo 4: Erosion along the southeastern corner of the cap, exposing fill material.



OU-1 Remedy Inspection
October 7, 2020
Armstrong World Industries, Inc.
4520 Broadway
Macon, Georgia

PHOTO LOG



Photo 5: View of forebay to stormwater inlet to box culverts. Competent and in good shape.



Photo 6: View of plunge pool at discharge of box culverts. Area in good shape and no erosion evident.

PHOTO LOG



Photo 7: View of Eastern MSE Wall at northeast corner of landfill. Wall competent with good vegetative growth.



Photo 8: View of top ridge of 3:1 slope along the eastern side of landfill. Drainage swale and vegetation competent.

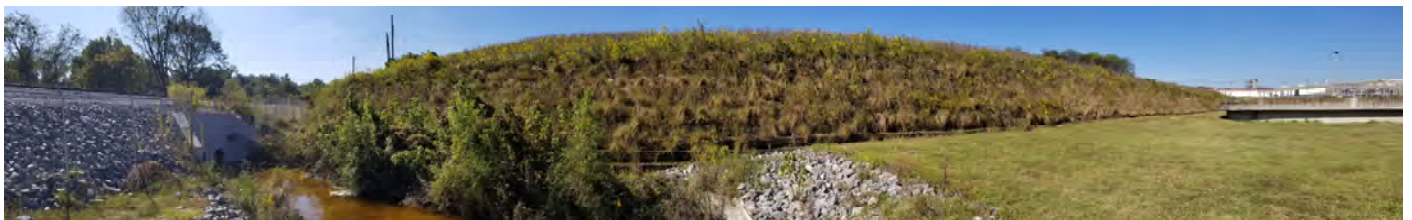


Photo 9: View of MSE wall along the southeastern corner of landfill. Competent and stable condition with good vegetative growth.



OU-1 Remedy Inspection
October 7, 2020
Armstrong World Industries, Inc.
4520 Broadway
Macon, Georgia

APPENDIX B

LANDFILL REPAIR PHOTOLOG

PHOTO LOG



Photo 1: : Vegetation cleared from southern slope revealing erosion issues with drainage swales (facing west).



Photo 2: Reshaping the upper swale on the southern slope with a mini-excavator (facing west).



Photo 3: Western side of upper swale reshaped (facing east).



Photo 4: Vegetation and deposited soil removed from lower swale (facing east).

RAMBOLL

OU-1 Landfill Cap Repair
December 2020
Armstrong World Industries, Inc.
4520 Broadway
Macon, Georgia

PHOTO LOG



Photo 5: Geotextile fabric placed in the upper swale (facing west).



Photo 6: Riprap placed on top of the geotextile fabric, and straw matting placed adjacent to the swale to prevent erosion (facing east).



Photo 7: Riprap placed on the bank of the upper swale where sloughing occurred (facing west).



Photo 8: Riprap, geotextile fabric, and straw matting placed on the eastern side of the lower swale connecting the surface drainage with the plunge pool (facing east).

APPENDIX C

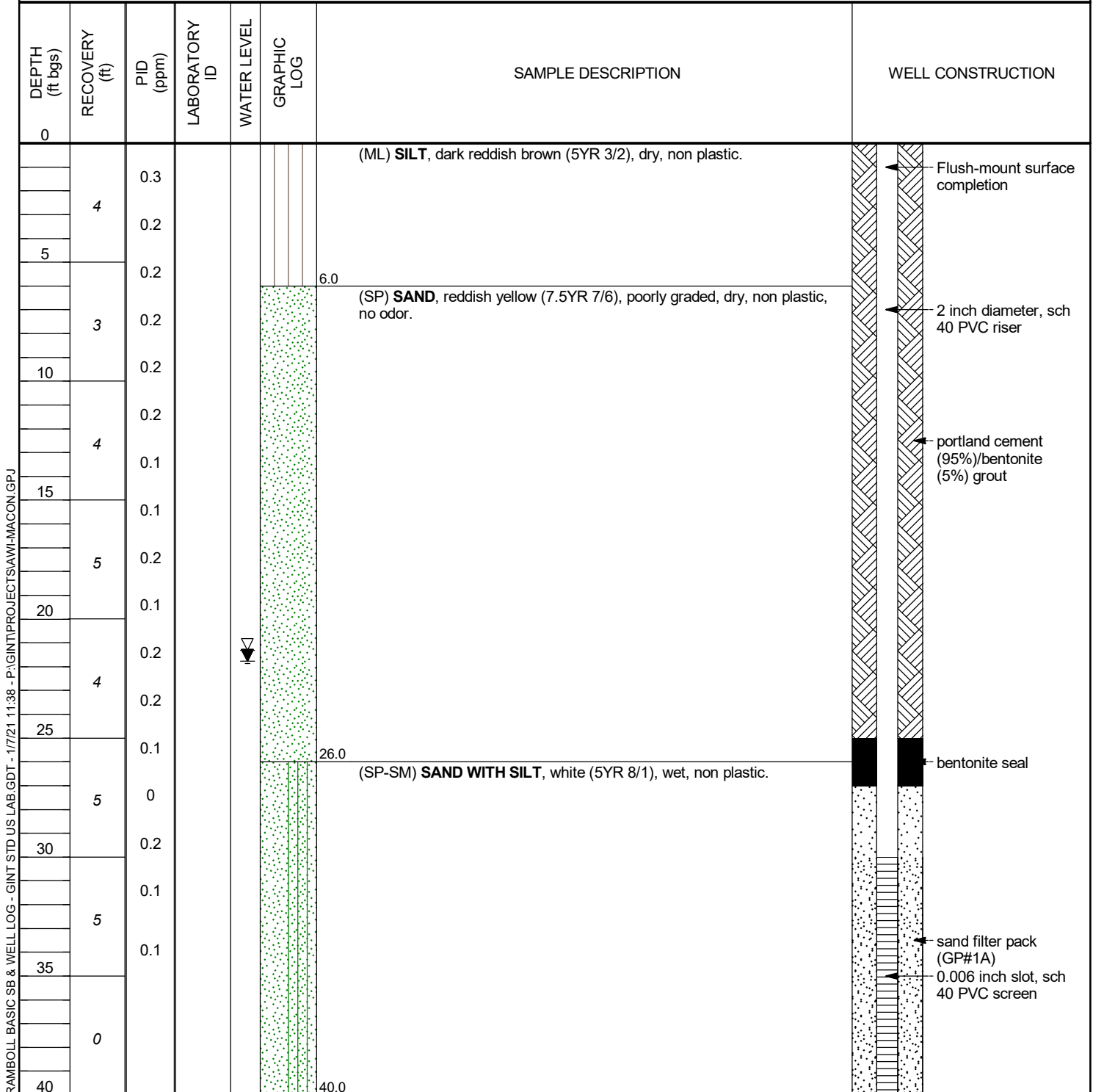
GROUNDWATER MONITORING DATA

- **MONITORING WELL MW-06R WELL LOG**
- **GROUNDWATER SAMPLING FIELD LOGS**
- **LABORATORY ANALYTICAL DATA**

APPENDIX C.1

MONITORING WELL MW-06R WELL LOG

CLIENT <u>Armstrong World Industries</u>	PROJECT NAME <u>Macon, Georgia</u>
PROJECT NUMBER <u>1690019302</u>	PROJECT LOCATION <u>4520 Broadway, Macon, GA 31206</u>
DATE STARTED <u>11/16/20</u> COMPLETED <u>11/17/20</u>	LOGGED BY <u>ADH</u> CHECKED BY <u>RGP</u>
DRILLING CONTRACTOR <u>Geolab Drilling</u>	GROUND ELEVATION <u>Not Measured</u> TOC ELEVATION <u>319.13 ft</u>
DRILLING EQUIPMENT <u>Track-mounted Geoprobe</u>	NORTHING <u>Not Measured</u> EASTING <u>Not Measured</u>
DRILLER <u>Randy Mason</u>	TOTAL BORING DEPTH <u>40 ft bgs</u> BOREHOLE SIZE <u>8 in</u>
DRILLING METHOD <u>Hollow Stem Auger/ Direct Push</u>	TOTAL WELL DEPTH <u>40 ft bgs</u> SCREEN INTERVAL <u>30-40 ft</u>
SAMPLING METHOD <u>Dual Tube Sampling System</u>	GROUNDWATER LEVEL AT TIME OF DRILLING <u>21.3 ft bgs</u> <u>11/17/2020</u>



Bottom of borehole at 40.0 feet.

APPENDIX C.2

GROUNDWATER SAMPLING FIELD LOGS

RAMBOLL

Armstrong World Industries - Macon
4520 Broadway
Macon, Georgia

Low Flow Groundwater Sampling Field Log

Monitoring Well -

MW-04

Sampling Information

Date (MM/DD/YY) - 10/07/20
Personnel - L. Logan
Weather - SUN EOS
Sampling Device - per pump
YSI HANNA TURB

Well Information

Measured Depth to Bottom - _____ ft BTOC
Screened Zone - 30-40 BGS
Depth to Pump Intake - 35 ft BGS
Pre-Pump (Static) Depth to Water - 25.0 BTOC
Post-Pump Depth to Water - 25.5 BTOC

1250
pump
start

Stabilization Criteria

± 0.1 SU ± 3 % ± 10 % ± 3 C ± 10 mV ± 10 % 0.3 ft

Time	Vol. L	Rate mL/min	pH Std	Cond. us/cm	Turb. NTU	Temp. C	ORP mV	DO mg/L	DTW ft	Appearance or Comments
1300		175	5.90	102.5	19.8	24.5	127.8	5.69	25.59	clear no odor
1305		150	5.59	102.1	15.1	24.5	146.9	5.60	25.59	clear no odor
1310		125	4.43	101.4	13.5	24.7	146.2	5.50	25.59	clear no odor
1315		125	4.39	102.0	12.2	24.5	172.4	5.42	25.59	clear no odor
1320		125	4.35	101.9	11.2	24.3	185.9	5.48	25.59	clear no odor
1325		125	4.35	101.7	10.3	24.6	190.5	5.47	25.59	clear no odor
1330		125	4.34	102.0	9.6	24.6	193.8	5.50	25.59	clear no odor
1335		125	4.33	102.1	8.99	24.4	191.6	5.52	25.59	clear no odor
1340		125	4.32	102.1	8.48	24.5	199.8	5.50	25.59	clear no odor
1345	SAMPLE									

1430 finish
Notes/Sample Information

Appearance at Start - _____
Appearance After Purging - _____
Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

Sample ID - _____
Sample Time - _____

Additional Sample - _____
Additional Sample ID - _____

DTW After Purging - _____ ft BTOC
DTW at Time of Sampling - _____ ft BTOC

Analyses

VOCs SVOCs RCRH metals, PCBs

Notes

DUP, MS, MSD



Monitoring Well -

AW-05

Date (MM/DD/YY) -

Personnel -

Personnel –

Weather -

-Sampling Device -

Measured Depth to Bottom -

Screened Zone -

h to Pump Intake -

(Static) Depth to Water -

Post-Pump Depth to Water -

start @
1001

Stabilization Criteria

 ± 0.1 SU

$\pm 3\%$

 $\pm 10\%$ $\pm 3^\circ\text{C}$ $\pm 10 \text{ mV}$ $\pm 10\%$

0.3 ft

right) no odor
no odor
no odor

~~TOP SECRET~~ **SAMPLE**

1110

Sample ID -

Sample Time -

Appearance at Start -

Appearance After Purging -

Total Volume Purged -

Purge Rate -

Additional Sample

Additional Sample ID

DTW After Purging -

DTW at Time of Sampling -

Analyses

Purge Rate - mL/min DTW at Time of Sampling -

VOCs, SVOCs, RCHAMetals, PCBs

Notes

field filter RCR metals + PCBs

all bottles total

paired with -OSP - same notes

RAMBOLL

Armstrong World Industries - Macon
4520 Broadway
Macon, Georgia

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW-05D

Sampling Information

Date (MM/DD/YY) - 10/06/20
Personnel - B. Bailey + L. Logan
Weather - 75°F cloudy
Sampling Device - Submersible pump (Hurricane XL)

Well Information

Measured Depth to Bottom - 76-86 ft BTOC
Screened Zone - 76-86 ft BGS
Depth to Pump Intake - 80 ft BGS
Pre-Pump (Static) Depth to Water - 45.96 ft BTOC (44.24 ft BTOC w/pump)
Post-Pump Depth to Water - 45.96 ft BTOC

1728
pump on
46% out put
on pump

Stabilization Criteria

± 0.1 SU ± 3 % ± 10 % ± 3 C ± 10 mV ± 10 % 0.3 ft

Time	Vol.	Rate mL/min	pH Std	Cond. us/cm	Turb. NTU	Temp. C	ORP mV	DO mg/L	DTW ft	Appearance or Comments
1731	800	400	5.54	041	4.6	21.2	197.6	5.86	47.19	clear no odor
1736	400	400	5.56	039	4.9	21.1	215	5.96	52.98	clear no odor
1741	400	400	5.57	039	4.0	21.4	293.7	5.10	55.23	clear no odor
1746	400	400	5.58	039	3.7	21.6	298.9	5.13	56.79	clear no odor
1751	400	400	5.59	039	3.9	21.7	300.6	5.15	58.78	clear no odor
1756	400	400	5.61	039	3.6	22.2	301.0	5.16	61.18	clear no odor
1800	SAMPLE									

Notes/Sample Information

Appearance at Start - _____
Appearance After Purging - _____
Total Volume Purged - _____ liters
Purge Rate - _____ mL/min

Sample ID - _____
Sample Time - _____

Additional Sample - _____
Additional Sample ID - _____

DTW After Purging - _____ ft bTOC
DTW at Time of Sampling - _____ ft bTOC

Analyses VOCs, SVOC, RCR A Metals, PCBs

Notes

flush mount - difficult to find used skid
steer to clear overgrowth + metal detector to locate
well



Armstrong World Industries - Macon
4520 Broadway
Macon, Georgia

Low Flow Groundwater Sampling Field Log

Monitoring Well - MW-06R

Sampling Information

Date (MM/DD/YY) - November 19, 2020
Personnel - Aaron Hottenstein
Weather - sun, 50°F
Sampling Device - Peristaltic Pump

Well Information

Measured Depth to Bottom - 39.45 ft BTOC
Screened Zone - 30 - 40 ft BGS
Depth to Pump Intake - 35.0 ft BGS
Pre-Pump (Static) Depth to Water - 21.77 ft BTOC
Post-Pump Depth to Water - 21.84 ft BTOC

Stabilization Criteria ± 0.1 SU ± 3 % ± 10 % ± 3 C ± 10 mV ± 10 % 0.3 ft

Time	Vol. L	Rate mL/min	pH Std	Cond. us/cm	Turb. NTU	Temp. C	ORP mV	DO mg/L	DTW ft	Appearance or Comments
9:35	--	200	6.34	109	4.37	20.10	112	3.53	21.86	clear
9:40	0.0	200	5.83	107	4.29	20.40	123	3.59	21.85	clear
9:45	1.0	200	5.14	107	4.04	20.00	144	3.82	21.84	clear
9:50	2.0	200	5.06	113	3.99	20.20	143	3.64	21.84	clear
9:55	3.0	200	4.98	119	3.52	20.10	142	3.43	21.84	clear
10:00	4.0	200	5.04	120	2.34	20.60	140	3.24	21.84	clear
10:05	5.0	200	4.97	121	1.94	20.80	144	2.85	21.84	clear
10:10	6.0	200	5.02	121	1.60	20.30	141	2.79	21.84	clear
10:15	7.0	200	4.95	121	1.49	20.40	146	2.57	21.84	clear
10:20	8.0	200	4.93	121	1.24	20.60	152	2.44	21.84	clear
10:25	9.0	200	5.01	121	1.03	20.40	148	2.41	21.84	clear
10:30	10.0	200	4.94	122	0.93	20.40	151	2.39	21.84	clear
10:35	11.0									
10:40	11.0									
10:45	11.0									
10:50	11.0									
10:55	11.0									
11:00	11.0									
11:05	11.0									
11:10	11.0									
11:15	11.0									
11:20	11.0									
11:25	11.0									
11:30	11.0									
11:35	11.0									
11:40	11.0									
11:45	11.0									
11:50	11.0									
11:55	11.0									
12:00	11.0									
12:05	11.0									
12:10	11.0									
12:15	11.0									
12:20	11.0									
12:25	11.0									
12:30	11.0									
12:35	11.0									
10:35	SAMPLE	200	4.94	122	0.9	20.40	151	2.39	21.84	clear

Notes/Sample Information

Appearance at Start - clear
Appearance After Purging - clear
Total Volume Purged - 11.0 liters
Purge Rate - 200-200 mL/min

Sample ID - MW-06R 20201119

Sample Time - 10:35

Additional Sample - MS/MSD

Additional Sample ID - MW-06R MS/MSD 20201119

DTW After Purging - 21.84 ft bTOC
DTW at Time of Sampling - 21.84 ft bTOC

Analyses VOCs, SVOCs, Metals and PCBs

Notes



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A

Required Client Information:

Company: Ramboll Environ US Corporation
Address: 1600 Parkwood Circle SE
Atlanta, GA 30339
Email: kcole@ramboll.com
Phone: (404)354-2950
Requested Due Date:

Section B

Required Project Information:

Report To: Cole, Keith
Copy To: reb patchette
RPATCHETTE@ramboll.com
Purchase Order #:
Project Name: AWI facility Proj #: 1690018899
Project #:

Section C

Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nikita.kuruganty@pacelabs.com
Pace Profile #: 12686

Regulatory Agency

State / Location

GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX CODE Drinking Water D Water W Waste Water WD Product P Soil/Solid SLC Oil OLC Wipe WP Air AR Other OT Tissue TS	CODE DW WT WWD PJ SLC OLC WP AR OTC TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		8260 Full List	8270 SVOC	8082 PCB Reduced Volume	RCRA Metals																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II data package	C. M. Logan / Ramboll	10/08/20	11054	K. Wellen / Pace	10/8/20	1654	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Uppie Logan

SIGNATURE of SAMPLER: C. M. Logan

DATE Signed: 10/07/20

TEMP in C
Received on
Ice ☐ (Y/N)
Custody
Sealed ☐
Cooler ☐ (Y/N)
Samples
Intact ☐ (Y/N)

APPENDIX C.3

LABORATORY ANALYTICAL REPORTS

October 15, 2020

Keith Cole
Ramboll Environ US Corporation
1600 Parkwood Circle
Suite 310
Atlanta, GA 30339

RE: Project: AWI Facility Proj#169001899
Pace Project No.: 92499650

Dear Keith Cole:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nikita Kuruganty
nikita.kuruganty@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Robert Patchett, Ramboll Environ



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92499650001	GW-MN05D-AWI-100620	Water	10/06/20 18:00	10/08/20 16:54
92499650002	GW-MN05-AWI-100720	Water	10/07/20 11:10	10/08/20 16:54
92499650003	GW-MN05-F-AWI-100720	Water	10/07/20 11:10	10/08/20 16:54
92499650004	GW-MN04-AWI-100720 MS/MSD	Water	10/07/20 13:45	10/08/20 16:54
92499650005	GW-MN04-DUP-AWI-100720	Water	10/07/20 13:45	10/08/20 16:54
92499650006	TRIP BLANK	Water	10/06/20 00:00	10/08/20 16:54

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92499650001	GW-MN05D-AWI-100620	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	KH	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	SAS	63	PASI-C
92499650002	GW-MN05-AWI-100720	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	KH	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	SAS	63	PASI-C
92499650003	GW-MN05-F-AWI-100720	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	KH	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	KH	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	SAS	63	PASI-C
92499650005	GW-MN04-DUP-AWI-100720	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	KH	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	SAS	63	PASI-C
92499650006	TRIP BLANK	EPA 8260D	PM1	63	PASI-C

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05D-AWI-100620		Lab ID: 92499650001		Collected: 10/06/20 18:00		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8082 GCS PCB RVE									
Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:32	11096-82-5		
Surrogates									
Decachlorobiphenyl (S)	23	%	10-181	1	10/13/20 08:18	10/15/20 01:32	2051-24-3		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	ND	ug/L	30.0	1	10/09/20 11:20	10/09/20 18:40	7440-38-2		
Barium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:40	7440-39-3		
Cadmium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:40	7440-43-9		
Chromium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:40	7440-47-3		
Lead	ND	ug/L	15.0	1	10/09/20 11:20	10/09/20 18:40	7439-92-1		
Selenium	ND	ug/L	40.0	1	10/09/20 11:20	10/09/20 18:40	7782-49-2		
Silver	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:40	7440-22-4		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	ug/L	0.20	1	10/12/20 14:30	10/13/20 11:20	7439-97-6		
8270E RVE									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	83-32-9		
Acenaphthylene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	208-96-8		
Aniline	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	62-53-3		
Anthracene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	120-12-7		
Benzo(a)anthracene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	56-55-3		
Benzo(a)pyrene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	207-08-9		
Benzoic Acid	ND	ug/L	50.0	1	10/12/20 08:42	10/13/20 12:41	65-85-0		
Benzyl alcohol	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	59-50-7		
4-Chloroaniline	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	111-44-4		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	95-57-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05D-AWI-100620		Lab ID: 92499650001	Collected: 10/06/20 18:00	Received: 10/08/20 16:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE		Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte						
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	7005-72-3	
Chrysene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/12/20 08:42	10/13/20 12:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	10/12/20 08:42	10/13/20 12:41	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	193-39-5	
Isophorone	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	10/12/20 08:42	10/13/20 12:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	62-75-9	v1
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	108-60-1	
Pentachlorophenol	ND	ug/L	20.0	1	10/12/20 08:42	10/13/20 12:41	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	85-01-8	
Phenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	108-95-2	
Pyrene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	129-00-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05D-AWI-100620		Lab ID: 92499650001		Collected: 10/06/20 18:00		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270E RVE									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	120-82-1		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 08:42	10/13/20 12:41	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	51	%	10-144	1	10/12/20 08:42	10/13/20 12:41	4165-60-0		
2-Fluorobiphenyl (S)	50	%	10-130	1	10/12/20 08:42	10/13/20 12:41	321-60-8		
Terphenyl-d14 (S)	102	%	34-163	1	10/12/20 08:42	10/13/20 12:41	1718-51-0		
Phenol-d6 (S)	27	%	10-130	1	10/12/20 08:42	10/13/20 12:41	13127-88-3		
2-Fluorophenol (S)	34	%	10-130	1	10/12/20 08:42	10/13/20 12:41	367-12-4		
2,4,6-Tribromophenol (S)	61	%	10-144	1	10/12/20 08:42	10/13/20 12:41	118-79-6		
8260D MSV Low Level Landfill									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	1		10/13/20 16:22	67-64-1		
Benzene	ND	ug/L	1.0	1		10/13/20 16:22	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/13/20 16:22	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/13/20 16:22	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/13/20 16:22	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/13/20 16:22	75-25-2		
Bromomethane	ND	ug/L	2.0	1		10/13/20 16:22	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		10/13/20 16:22	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/20 16:22	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/13/20 16:22	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/13/20 16:22	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/13/20 16:22	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:22	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:22	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/20 16:22	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/13/20 16:22	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/20 16:22	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/13/20 16:22	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/20 16:22	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:22	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:22	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:22	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:22	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:22	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:22	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:22	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:22	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:22	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:22	10061-01-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05D-AWI-100620		Lab ID: 92499650001		Collected: 10/06/20 18:00		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:22	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		10/13/20 16:22	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		10/13/20 16:22	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/13/20 16:22	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		10/13/20 16:22	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/13/20 16:22	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/13/20 16:22	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/13/20 16:22	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/13/20 16:22	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/13/20 16:22	91-20-3		
Styrene	ND	ug/L	1.0	1		10/13/20 16:22	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:22	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:22	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/13/20 16:22	127-18-4		
Toluene	ND	ug/L	1.0	1		10/13/20 16:22	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:22	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:22	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:22	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/13/20 16:22	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/20 16:22	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/13/20 16:22	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		10/13/20 16:22	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/13/20 16:22	75-01-4		
Xylene (Total)	ND	ug/L	1.0	1		10/13/20 16:22	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/13/20 16:22	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/13/20 16:22	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		10/13/20 16:22	460-00-4		
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/13/20 16:22	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		10/13/20 16:22	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05-AWI-100720		Lab ID: 92499650002		Collected: 10/07/20 11:10		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8082 GCS PCB RVE		Analytical Method: EPA 8082A Preparation Method: EPA 3510C Pace Analytical Services - Charlotte							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:44	11096-82-5		
Surrogates									
Decachlorobiphenyl (S)	38	%	10-181	1	10/13/20 08:18	10/15/20 01:44	2051-24-3		
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	ug/L	30.0	1	10/09/20 11:20	10/12/20 20:00	7440-38-2		
Barium	86.8	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:45	7440-39-3		
Cadmium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:45	7440-43-9		
Chromium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:45	7440-47-3		
Lead	ND	ug/L	15.0	1	10/09/20 11:20	10/09/20 18:45	7439-92-1		
Selenium	ND	ug/L	40.0	1	10/09/20 11:20	10/09/20 18:45	7782-49-2		
Silver	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:45	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	ug/L	0.20	1	10/12/20 14:30	10/13/20 11:22	7439-97-6		
8270E RVE		Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte							
Acenaphthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	83-32-9		
Acenaphthylene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	208-96-8		
Aniline	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	62-53-3		
Anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	120-12-7		
Benzo(a)anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	56-55-3		
Benzo(a)pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	207-08-9		
Benzoic Acid	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 12:39	65-85-0	L2	
Benzyl alcohol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	59-50-7		
4-Chloroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	111-44-4		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	95-57-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05-AWI-100720		Lab ID: 92499650002		Collected: 10/07/20 11:10		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270E RVE		Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte							
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	7005-72-3		
Chrysene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	53-70-3		
Dibenzofuran	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	132-64-9		
1,2-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 12:39	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	10/12/20 20:43	10/14/20 12:39	117-81-7		
Fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	206-44-0		
Fluorene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	193-39-5		
Isophorone	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	78-59-1		
1-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	91-57-6		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	15831-10-4		
Naphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	91-20-3		
2-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	88-74-4		
3-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	99-09-2		
4-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 12:39	100-02-7		
N-Nitrosodimethylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	86-30-6		
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	108-60-1		
Pentachlorophenol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 12:39	87-86-5		
Phenanthrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	85-01-8		
Phenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	108-95-2		
Pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	129-00-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05-AWI-100720		Lab ID: 92499650002		Collected: 10/07/20 11:10		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270E RVE									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	120-82-1		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 12:39	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	49	%	10-144	1	10/12/20 20:43	10/14/20 12:39	4165-60-0		
2-Fluorobiphenyl (S)	48	%	10-130	1	10/12/20 20:43	10/14/20 12:39	321-60-8		
Terphenyl-d14 (S)	61	%	34-163	1	10/12/20 20:43	10/14/20 12:39	1718-51-0		
Phenol-d6 (S)	26	%	10-130	1	10/12/20 20:43	10/14/20 12:39	13127-88-3		
2-Fluorophenol (S)	33	%	10-130	1	10/12/20 20:43	10/14/20 12:39	367-12-4		
2,4,6-Tribromophenol (S)	42	%	10-144	1	10/12/20 20:43	10/14/20 12:39	118-79-6		
8260D MSV Low Level Landfill									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	1		10/13/20 16:40	67-64-1		
Benzene	ND	ug/L	1.0	1		10/13/20 16:40	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/13/20 16:40	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/13/20 16:40	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/13/20 16:40	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/13/20 16:40	75-25-2		
Bromomethane	ND	ug/L	2.0	1		10/13/20 16:40	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		10/13/20 16:40	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/20 16:40	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/13/20 16:40	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/13/20 16:40	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/13/20 16:40	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:40	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:40	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/20 16:40	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/13/20 16:40	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/20 16:40	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/13/20 16:40	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/20 16:40	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:40	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:40	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:40	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:40	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:40	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:40	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:40	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:40	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:40	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:40	10061-01-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05-AWI-100720		Lab ID: 92499650002		Collected: 10/07/20 11:10		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:40	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		10/13/20 16:40	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		10/13/20 16:40	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/13/20 16:40	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		10/13/20 16:40	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/13/20 16:40	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/13/20 16:40	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/13/20 16:40	108-10-1		
Methyl-tert-butyl ether	2.1	ug/L	1.0	1		10/13/20 16:40	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/13/20 16:40	91-20-3		
Styrene	ND	ug/L	1.0	1		10/13/20 16:40	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:40	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:40	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/13/20 16:40	127-18-4		
Toluene	ND	ug/L	1.0	1		10/13/20 16:40	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:40	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:40	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:40	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/13/20 16:40	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/20 16:40	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/13/20 16:40	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		10/13/20 16:40	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/13/20 16:40	75-01-4		
Xylene (Total)	ND	ug/L	1.0	1		10/13/20 16:40	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/13/20 16:40	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/13/20 16:40	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		10/13/20 16:40	460-00-4		
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/13/20 16:40	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		10/13/20 16:40	2037-26-5		

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN05-F-AWI-100720		Lab ID: 92499650003		Collected: 10/07/20 11:10		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8082 GCS PCB RVE									
Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 01:55	11096-82-5		
Surrogates									
Decachlorobiphenyl (S)	50	%	10-181	1	10/13/20 08:18	10/15/20 01:55	2051-24-3		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	ND	ug/L	30.0	1	10/09/20 11:20	10/09/20 18:49	7440-38-2		
Barium	87.4	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:49	7440-39-3		
Cadmium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:49	7440-43-9		
Chromium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:49	7440-47-3		
Lead	ND	ug/L	15.0	1	10/09/20 11:20	10/09/20 18:49	7439-92-1		
Selenium	ND	ug/L	40.0	1	10/09/20 11:20	10/09/20 18:49	7782-49-2		
Silver	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:49	7440-22-4		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	ug/L	0.20	1	10/12/20 14:30	10/13/20 11:25	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-AWI-100720 **Lab ID:** 92499650004 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water
MS/MSD

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB RVE								
Analytical Method: EPA 8082A Preparation Method: EPA 3510C Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:06	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	52	%	10-181	1	10/13/20 08:18	10/15/20 02:06	2051-24-3	
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	ug/L	30.0	1	10/09/20 11:20	10/09/20 18:53	7440-38-2	
Barium	68.7	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:53	7440-39-3	
Cadmium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:53	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:53	7440-47-3	
Lead	ND	ug/L	15.0	1	10/09/20 11:20	10/09/20 18:53	7439-92-1	
Selenium	ND	ug/L	40.0	1	10/09/20 11:20	10/09/20 18:53	7782-49-2	
Silver	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 18:53	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.32	ug/L	0.20	1	10/12/20 14:30	10/13/20 11:27	7439-97-6	
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	208-96-8	
Aniline	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	62-53-3	R1
Anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 13:04	65-85-0	L2
Benzyl alcohol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	95-57-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-AWI-100720 **Lab ID:** 92499650004 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water
MS/MSD

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	7005-72-3	
Chrysene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 13:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	10/12/20 20:43	10/14/20 13:04	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	193-39-5	
Isophorone	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	10/12/20 20:43	10/14/20 13:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	108-60-1	
Pentachlorophenol	ND	ug/L	20.0	1	10/12/20 20:43	10/14/20 13:04	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	85-01-8	
Phenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	108-95-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-AWI-100720 **Lab ID:** 92499650004 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water
MS/MSD

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
Pyrene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/12/20 20:43	10/14/20 13:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%	10-144	1	10/12/20 20:43	10/14/20 13:04	4165-60-0	
2-Fluorobiphenyl (S)	56	%	10-130	1	10/12/20 20:43	10/14/20 13:04	321-60-8	
Terphenyl-d14 (S)	77	%	34-163	1	10/12/20 20:43	10/14/20 13:04	1718-51-0	
Phenol-d6 (S)	32	%	10-130	1	10/12/20 20:43	10/14/20 13:04	13127-88-3	
2-Fluorophenol (S)	41	%	10-130	1	10/12/20 20:43	10/14/20 13:04	367-12-4	
2,4,6-Tribromophenol (S)	55	%	10-144	1	10/12/20 20:43	10/14/20 13:04	118-79-6	
8260D MSV Low Level Landfill								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/L	25.0	1		10/13/20 16:58	67-64-1	
Benzene	ND	ug/L	1.0	1		10/13/20 16:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/13/20 16:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/13/20 16:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/13/20 16:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/13/20 16:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/13/20 16:58	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	5.0	1		10/13/20 16:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/20 16:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/13/20 16:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/20 16:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/13/20 16:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 16:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/20 16:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/13/20 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/20 16:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/13/20 16:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/20 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/20 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 16:58	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-AWI-100720 MS/MSD		Lab ID: 92499650004		Collected: 10/07/20 13:45		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:58	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:58	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 16:58	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		10/13/20 16:58	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		10/13/20 16:58	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/13/20 16:58	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		10/13/20 16:58	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/13/20 16:58	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/13/20 16:58	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/13/20 16:58	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/13/20 16:58	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/13/20 16:58	91-20-3		
Styrene	ND	ug/L	1.0	1		10/13/20 16:58	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:58	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 16:58	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/13/20 16:58	127-18-4		
Toluene	ND	ug/L	1.0	1		10/13/20 16:58	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 16:58	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:58	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/20 16:58	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/13/20 16:58	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/20 16:58	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/13/20 16:58	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		10/13/20 16:58	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/13/20 16:58	75-01-4		
Xylene (Total)	ND	ug/L	1.0	1		10/13/20 16:58	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/13/20 16:58	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/13/20 16:58	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		10/13/20 16:58	460-00-4		
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/13/20 16:58	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		10/13/20 16:58	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-DUP-AWI-100720 **Lab ID:** 92499650005 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB RVE								
Analytical Method: EPA 8082A Preparation Method: EPA 3510C Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	10/13/20 08:18	10/15/20 02:41	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	47	%	10-181	1	10/13/20 08:18	10/15/20 02:41	2051-24-3	
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	ug/L	30.0	1	10/09/20 11:20	10/09/20 19:12	7440-38-2	
Barium	70.5	ug/L	10.0	1	10/09/20 11:20	10/09/20 19:12	7440-39-3	
Cadmium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 19:12	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 19:12	7440-47-3	
Lead	ND	ug/L	15.0	1	10/09/20 11:20	10/09/20 19:12	7439-92-1	
Selenium	ND	ug/L	40.0	1	10/09/20 11:20	10/09/20 19:12	7782-49-2	
Silver	ND	ug/L	10.0	1	10/09/20 11:20	10/09/20 19:12	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.31	ug/L	0.20	1	10/12/20 14:30	10/13/20 11:41	7439-97-6	
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	208-96-8	
Aniline	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	62-53-3	
Anthracene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	10/13/20 08:15	10/14/20 14:20	65-85-0	L2
Benzyl alcohol	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	95-57-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-DUP-AWI-100720 **Lab ID:** 92499650005 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	7005-72-3	
Chrysene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/13/20 08:15	10/14/20 14:20	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	10/13/20 08:15	10/14/20 14:20	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	193-39-5	
Isophorone	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	10/13/20 08:15	10/14/20 14:20	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	108-60-1	
Pentachlorophenol	ND	ug/L	20.0	1	10/13/20 08:15	10/14/20 14:20	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	85-01-8	
Phenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	108-95-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-DUP-AWI-100720 **Lab ID:** 92499650005 **Collected:** 10/07/20 13:45 **Received:** 10/08/20 16:54 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
Pyrene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/13/20 08:15	10/14/20 14:20	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	50	%	10-144	1	10/13/20 08:15	10/14/20 14:20	4165-60-0	
2-Fluorobiphenyl (S)	47	%	10-130	1	10/13/20 08:15	10/14/20 14:20	321-60-8	
Terphenyl-d14 (S)	71	%	34-163	1	10/13/20 08:15	10/14/20 14:20	1718-51-0	
Phenol-d6 (S)	27	%	10-130	1	10/13/20 08:15	10/14/20 14:20	13127-88-3	
2-Fluorophenol (S)	34	%	10-130	1	10/13/20 08:15	10/14/20 14:20	367-12-4	
2,4,6-Tribromophenol (S)	46	%	10-144	1	10/13/20 08:15	10/14/20 14:20	118-79-6	
8260D MSV Low Level Landfill								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/L	25.0	1		10/13/20 17:16	67-64-1	
Benzene	ND	ug/L	1.0	1		10/13/20 17:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/13/20 17:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/13/20 17:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/13/20 17:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/13/20 17:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/13/20 17:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/13/20 17:16	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/20 17:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/13/20 17:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/20 17:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/13/20 17:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 17:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 17:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/20 17:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/13/20 17:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/20 17:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/13/20 17:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/20 17:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/20 17:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/20 17:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/20 17:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 17:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 17:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 17:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/13/20 17:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 17:16	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: GW-MN04-DUP-AWI-100720		Lab ID: 92499650005		Collected: 10/07/20 13:45		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
1,1-Dichloropropene	ND	ug/L	1.0	1		10/13/20 17:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 17:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 17:16	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		10/13/20 17:16	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		10/13/20 17:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/13/20 17:16	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		10/13/20 17:16	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/13/20 17:16	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/13/20 17:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/13/20 17:16	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/13/20 17:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/13/20 17:16	91-20-3		
Styrene	ND	ug/L	1.0	1		10/13/20 17:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 17:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 17:16	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/13/20 17:16	127-18-4		
Toluene	ND	ug/L	1.0	1		10/13/20 17:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 17:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/20 17:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/20 17:16	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/13/20 17:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/20 17:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/13/20 17:16	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		10/13/20 17:16	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/13/20 17:16	75-01-4		
Xylene (Total)	ND	ug/L	1.0	1		10/13/20 17:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/13/20 17:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/13/20 17:16	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130	1		10/13/20 17:16	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/13/20 17:16	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		10/13/20 17:16	2037-26-5		

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: TRIP BLANK		Lab ID: 92499650006		Collected: 10/06/20 00:00		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
Acetone	ND	ug/L	25.0	1		10/13/20 22:54	67-64-1		
Benzene	ND	ug/L	1.0	1		10/13/20 22:54	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/13/20 22:54	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/13/20 22:54	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/13/20 22:54	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/13/20 22:54	75-25-2	v1	
Bromomethane	ND	ug/L	2.0	1		10/13/20 22:54	74-83-9	v2	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/13/20 22:54	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/20 22:54	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/13/20 22:54	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/13/20 22:54	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/13/20 22:54	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 22:54	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/13/20 22:54	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/20 22:54	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/13/20 22:54	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/20 22:54	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/13/20 22:54	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/20 22:54	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/20 22:54	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/20 22:54	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/20 22:54	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 22:54	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/20 22:54	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 22:54	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/13/20 22:54	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/13/20 22:54	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/13/20 22:54	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 22:54	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/20 22:54	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		10/13/20 22:54	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		10/13/20 22:54	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/13/20 22:54	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		10/13/20 22:54	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/13/20 22:54	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/13/20 22:54	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/13/20 22:54	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/13/20 22:54	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/13/20 22:54	91-20-3		
Styrene	ND	ug/L	1.0	1		10/13/20 22:54	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 22:54	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/13/20 22:54	79-34-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Sample: TRIP BLANK		Lab ID: 92499650006		Collected: 10/06/20 00:00		Received: 10/08/20 16:54		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
	Tetrachloroethene	ND	ug/L	1.0	1		10/13/20 22:54	127-18-4	
	Toluene	ND	ug/L	1.0	1		10/13/20 22:54	108-88-3	
	1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	87-61-6	
	1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/13/20 22:54	120-82-1	
	1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/20 22:54	71-55-6	
	1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/20 22:54	79-00-5	
	Trichloroethene	ND	ug/L	1.0	1		10/13/20 22:54	79-01-6	
	Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/20 22:54	75-69-4	
	1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/13/20 22:54	96-18-4	
	Vinyl acetate	ND	ug/L	2.0	1		10/13/20 22:54	108-05-4	
	Vinyl chloride	ND	ug/L	1.0	1		10/13/20 22:54	75-01-4	
	Xylene (Total)	ND	ug/L	1.0	1		10/13/20 22:54	1330-20-7	
	m&p-Xylene	ND	ug/L	2.0	1		10/13/20 22:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/13/20 22:54	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130	1		10/13/20 22:54	460-00-4		
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/13/20 22:54	17060-07-0		
Toluene-d8 (S)	95	%	70-130	1		10/13/20 22:54	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch:	572126	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

METHOD BLANK: 3030150 Matrix: Water

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	30.0	10/09/20 18:09	
Barium	ug/L	ND	10.0	10/09/20 18:09	
Cadmium	ug/L	ND	10.0	10/09/20 18:09	
Chromium	ug/L	ND	10.0	10/09/20 18:09	
Lead	ug/L	ND	15.0	10/09/20 18:09	
Selenium	ug/L	ND	40.0	10/09/20 18:09	
Silver	ug/L	ND	10.0	10/09/20 18:09	

LABORATORY CONTROL SAMPLE: 3030151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	999	100	80-120	
Barium	ug/L	1000	1000	100	80-120	
Cadmium	ug/L	1000	1010	101	80-120	
Chromium	ug/L	1000	987	99	80-120	
Lead	ug/L	1000	1010	101	80-120	
Selenium	ug/L	1000	970	97	80-120	
Silver	ug/L	1000	985	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030152 3030153

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	995	1010	97	98	75-125	1	20	
Barium	ug/L	68.7	1000	1000	1060	1050	99	98	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1000	989	100	99	75-125	1	20	
Chromium	ug/L	ND	1000	1000	955	967	95	97	75-125	1	20	
Lead	ug/L	ND	1000	1000	993	999	99	100	75-125	1	20	
Selenium	ug/L	ND	1000	1000	938	983	93	97	75-125	5	20	
Silver	ug/L	ND	1000	1000	972	958	97	96	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030154 3030155

Parameter	Units	92499466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	996	1010	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030154 3030155												
Parameter	Units	92499466005	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Barium	ug/L	55.8	1000	1000	1030	1030	97	98	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1010	1020	101	102	75-125	1	20	
Chromium	ug/L	ND	1000	1000	980	971	98	97	75-125	1	20	
Lead	ug/L	ND	1000	1000	1010	1020	101	102	75-125	1	20	
Selenium	ug/L	ND	1000	1000	941	1030	94	103	75-125	9	20	
Silver	ug/L	ND	1000	1000	976	984	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch: 572203

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

METHOD BLANK: 3030665

Matrix: Water

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/13/20 11:08	

LABORATORY CONTROL SAMPLE: 3030666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030667 3030668

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.32	2.5	2.5	2.8	2.8	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch: 572622

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92499650006

METHOD BLANK: 3032697

Matrix: Water

Associated Lab Samples: 92499650006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,1-Dichloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,1-Dichloroethene	ug/L	ND	1.0	10/13/20 22:36	
1,1-Dichloropropene	ug/L	ND	1.0	10/13/20 22:36	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/13/20 22:36	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/13/20 22:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/13/20 22:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
1,2-Dichloroethane	ug/L	ND	1.0	10/13/20 22:36	
1,2-Dichloropropane	ug/L	ND	1.0	10/13/20 22:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
1,3-Dichloropropane	ug/L	ND	1.0	10/13/20 22:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
2,2-Dichloropropane	ug/L	ND	1.0	10/13/20 22:36	
2-Butanone (MEK)	ug/L	ND	5.0	10/13/20 22:36	
2-Chlorotoluene	ug/L	ND	1.0	10/13/20 22:36	
2-Hexanone	ug/L	ND	5.0	10/13/20 22:36	
4-Chlorotoluene	ug/L	ND	1.0	10/13/20 22:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/13/20 22:36	
Acetone	ug/L	ND	25.0	10/13/20 22:36	
Benzene	ug/L	ND	1.0	10/13/20 22:36	
Bromobenzene	ug/L	ND	1.0	10/13/20 22:36	
Bromochloromethane	ug/L	ND	1.0	10/13/20 22:36	
Bromodichloromethane	ug/L	ND	1.0	10/13/20 22:36	
Bromoform	ug/L	ND	1.0	10/13/20 22:36	v1
Bromomethane	ug/L	ND	2.0	10/13/20 22:36	v2
Carbon tetrachloride	ug/L	ND	1.0	10/13/20 22:36	
Chlorobenzene	ug/L	ND	1.0	10/13/20 22:36	
Chloroethane	ug/L	ND	1.0	10/13/20 22:36	
Chloroform	ug/L	ND	5.0	10/13/20 22:36	
Chloromethane	ug/L	ND	1.0	10/13/20 22:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/13/20 22:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/13/20 22:36	
Dibromochloromethane	ug/L	ND	1.0	10/13/20 22:36	
Dibromomethane	ug/L	ND	1.0	10/13/20 22:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

METHOD BLANK: 3032697

Matrix: Water

Associated Lab Samples: 92499650006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/13/20 22:36	
Diisopropyl ether	ug/L	ND	1.0	10/13/20 22:36	
Ethylbenzene	ug/L	ND	1.0	10/13/20 22:36	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/13/20 22:36	
m&p-Xylene	ug/L	ND	2.0	10/13/20 22:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/13/20 22:36	
Methylene Chloride	ug/L	ND	5.0	10/13/20 22:36	
Naphthalene	ug/L	ND	1.0	10/13/20 22:36	
o-Xylene	ug/L	ND	1.0	10/13/20 22:36	
p-Isopropyltoluene	ug/L	ND	1.0	10/13/20 22:36	
Styrene	ug/L	ND	1.0	10/13/20 22:36	
Tetrachloroethene	ug/L	ND	1.0	10/13/20 22:36	
Toluene	ug/L	ND	1.0	10/13/20 22:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/13/20 22:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/13/20 22:36	
Trichloroethene	ug/L	ND	1.0	10/13/20 22:36	
Trichlorofluoromethane	ug/L	ND	1.0	10/13/20 22:36	
Vinyl acetate	ug/L	ND	2.0	10/13/20 22:36	
Vinyl chloride	ug/L	ND	1.0	10/13/20 22:36	
Xylene (Total)	ug/L	ND	1.0	10/13/20 22:36	
1,2-Dichloroethane-d4 (S)	%	112	70-130	10/13/20 22:36	
4-Bromofluorobenzene (S)	%	100	70-130	10/13/20 22:36	
Toluene-d8 (S)	%	94	70-130	10/13/20 22:36	

LABORATORY CONTROL SAMPLE: 3032698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.9	114	70-130	
1,1,1-Trichloroethane	ug/L	50	56.7	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethene	ug/L	50	55.9	112	70-132	
1,1-Dichloropropene	ug/L	50	48.4	97	70-131	
1,2,3-Trichlorobenzene	ug/L	50	51.8	104	70-134	
1,2,3-Trichloropropane	ug/L	50	52.3	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.2	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.9	112	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane	ug/L	50	55.1	110	70-130	
1,2-Dichloropropane	ug/L	50	49.5	99	70-130	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,3-Dichloropropane	ug/L	50	49.2	98	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3032698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	53.0	106	70-130	
2,2-Dichloropropane	ug/L	50	55.4	111	70-130	
2-Butanone (MEK)	ug/L	100	104	104	70-133	
2-Chlorotoluene	ug/L	50	50.9	102	70-130	
2-Hexanone	ug/L	100	117	117	70-130	
4-Chlorotoluene	ug/L	50	51.0	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	112	112	70-144	
Benzene	ug/L	50	49.0	98	70-130	
Bromobenzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	50.7	101	70-130	
Bromodichloromethane	ug/L	50	49.8	100	70-130	
Bromoform	ug/L	50	59.6	119	70-131 v1	
Bromomethane	ug/L	50	40.0	80	30-177 v3	
Carbon tetrachloride	ug/L	50	60.4	121	70-130	
Chlorobenzene	ug/L	50	51.7	103	70-130	
Chloroethane	ug/L	50	44.3	89	46-131	
Chloroform	ug/L	50	54.6	109	70-130	
Chloromethane	ug/L	50	46.8	94	49-130	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.0	108	70-130	
Dibromochloromethane	ug/L	50	56.8	114	70-130	
Dibromomethane	ug/L	50	55.3	111	70-130	
Dichlorodifluoromethane	ug/L	50	47.2	94	52-134	
Diisopropyl ether	ug/L	50	50.8	102	70-131	
Ethylbenzene	ug/L	50	49.7	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	70-131	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	50.2	100	70-130	
Methylene Chloride	ug/L	50	51.7	103	68-130	
Naphthalene	ug/L	50	50.2	100	70-133	
o-Xylene	ug/L	50	49.5	99	70-130	
p-Isopropyltoluene	ug/L	50	48.9	98	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	53.7	107	70-130	
Toluene	ug/L	50	48.6	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.6	109	70-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	61-130	
Vinyl acetate	ug/L	100	115	115	70-140	
Vinyl chloride	ug/L	50	42.4	85	59-142	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE SAMPLE:		3032699	92499060012	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.1	106	70-135		
1,1,1-Trichloroethane	ug/L	ND	20	22.6	113	70-148		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.8	89	70-131		
1,1,2-Trichloroethane	ug/L	ND	20	21.4	107	70-136		
1,1-Dichloroethane	ug/L	ND	20	19.4	97	70-147		
1,1-Dichloroethene	ug/L	ND	20	20.8	104	70-158		
1,1-Dichloropropene	ug/L	ND	20	19.5	98	70-149		
1,2,3-Trichlorobenzene	ug/L	ND	20	19.5	98	68-140		
1,2,3-Trichloropropane	ug/L	ND	20	19.0	95	67-137		
1,2,4-Trichlorobenzene	ug/L	ND	20	19.4	97	70-139		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.6	98	69-136		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.6	103	70-137		
1,2-Dichlorobenzene	ug/L	ND	20	19.6	98	70-133		
1,2-Dichloroethane	ug/L	ND	20	21.3	106	67-138		
1,2-Dichloropropane	ug/L	ND	20	19.4	97	70-138		
1,3-Dichlorobenzene	ug/L	ND	20	19.9	99	70-133		
1,3-Dichloropropane	ug/L	ND	20	19.7	99	70-136		
1,4-Dichlorobenzene	ug/L	ND	20	19.6	98	70-133		
2,2-Dichloropropane	ug/L	ND	20	21.2	106	52-155		
2-Butanone (MEK)	ug/L	ND	40	34.9	87	61-147		
2-Chlorotoluene	ug/L	ND	20	20.0	100	70-141		
2-Hexanone	ug/L	ND	40	34.9	87	67-139		
4-Chlorotoluene	ug/L	ND	20	19.6	98	70-135		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	35.4	89	67-136		
Acetone	ug/L	ND	40	37.0	93	55-159		
Benzene	ug/L	ND	20	20.2	101	67-150		
Bromobenzene	ug/L	ND	20	20.1	101	70-134		
Bromochloromethane	ug/L	ND	20	20.4	102	70-146		
Bromodichloromethane	ug/L	ND	20	20.3	102	70-138		
Bromoform	ug/L	ND	20	20.8	104	57-138		
Bromomethane	ug/L	ND	20	20.2	101	10-200		
Carbon tetrachloride	ug/L	ND	20	25.3	126	70-147		
Chlorobenzene	ug/L	ND	20	20.3	101	70-137		
Chloroethane	ug/L	ND	20	16.9	84	51-166 v3		
Chloroform	ug/L	ND	20	21.3	104	70-144		
Chloromethane	ug/L	ND	20	14.9	75	24-161 v3		
cis-1,2-Dichloroethene	ug/L	ND	20	19.8	99	67-148		
cis-1,3-Dichloropropene	ug/L	ND	20	21.5	108	70-142		
Dibromochloromethane	ug/L	ND	20	21.3	106	68-138		
Dibromomethane	ug/L	ND	20	22.4	112	70-134		
Dichlorodifluoromethane	ug/L	ND	20	16.9	85	43-155 v3		
Diisopropyl ether	ug/L	ND	20	16.7	83	65-146		
Ethylbenzene	ug/L	ND	20	20.2	101	68-143		
Hexachloro-1,3-butadiene	ug/L	ND	20	21.2	106	62-151		
m&p-Xylene	ug/L	ND	40	41.1	103	53-157		
Methyl-tert-butyl ether	ug/L	ND	20	18.2	91	59-156		
Methylene Chloride	ug/L	ND	20	18.1	90	64-148		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE SAMPLE: 3032699		92499060012	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Naphthalene	ug/L	ND	20	18.0	90	57-150	
o-Xylene	ug/L	ND	20	19.9	100	68-143	
p-Isopropyltoluene	ug/L	ND	20	19.8	99	70-141	
Styrene	ug/L	ND	20	21.0	105	70-136	
Tetrachloroethene	ug/L	25.6	20	46.0	102	70-139	
Toluene	ug/L	ND	20	20.3	101	47-157	
trans-1,2-Dichloroethene	ug/L	ND	20	20.4	102	70-149	
trans-1,3-Dichloropropene	ug/L	ND	20	20.8	104	70-138	
Trichloroethene	ug/L	16.6	20	38.6	110	70-149	
Trichlorofluoromethane	ug/L	ND	20	19.6	98	61-154	
Vinyl acetate	ug/L	ND	40	36.1	90	48-156	
Vinyl chloride	ug/L	ND	20	14.9	75	55-172	v3
Xylene (Total)	ug/L	ND	60	61.0	102	66-145	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3034619

Parameter	Units	92499060050	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

SAMPLE DUPLICATE: 3034619

Parameter	Units	92499060050 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	v2
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	v2
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	v2
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	15.3	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	8.8	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	v2
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	117	98			
4-Bromofluorobenzene (S)	%	100	102			
Toluene-d8 (S)	%	94	99			

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch:	572627	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV Low Level Landfill
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92499650001, 92499650002, 92499650004, 92499650005

METHOD BLANK: 3032719

Matrix: Water

Associated Lab Samples: 92499650001, 92499650002, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,1-Dichloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,1-Dichloroethene	ug/L	ND	1.0	10/13/20 14:16	
1,1-Dichloropropene	ug/L	ND	1.0	10/13/20 14:16	
1,2,3-Trichlorobenzene	ug/L	1.0	1.0	10/13/20 14:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/13/20 14:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/13/20 14:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/13/20 14:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/13/20 14:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/13/20 14:16	
1,2-Dichloroethane	ug/L	ND	1.0	10/13/20 14:16	
1,2-Dichloropropane	ug/L	ND	1.0	10/13/20 14:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/13/20 14:16	
1,3-Dichloropropane	ug/L	ND	1.0	10/13/20 14:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/13/20 14:16	
2,2-Dichloropropane	ug/L	ND	1.0	10/13/20 14:16	
2-Butanone (MEK)	ug/L	ND	5.0	10/13/20 14:16	
2-Chlorotoluene	ug/L	ND	1.0	10/13/20 14:16	
2-Hexanone	ug/L	ND	5.0	10/13/20 14:16	
4-Chlorotoluene	ug/L	ND	1.0	10/13/20 14:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/13/20 14:16	
Acetone	ug/L	ND	25.0	10/13/20 14:16	
Benzene	ug/L	ND	1.0	10/13/20 14:16	
Bromobenzene	ug/L	ND	1.0	10/13/20 14:16	
Bromochloromethane	ug/L	ND	1.0	10/13/20 14:16	
Bromodichloromethane	ug/L	ND	1.0	10/13/20 14:16	
Bromoform	ug/L	ND	1.0	10/13/20 14:16	
Bromomethane	ug/L	ND	2.0	10/13/20 14:16	
Carbon tetrachloride	ug/L	ND	1.0	10/13/20 14:16	
Chlorobenzene	ug/L	ND	1.0	10/13/20 14:16	
Chloroethane	ug/L	ND	1.0	10/13/20 14:16	
Chloroform	ug/L	ND	5.0	10/13/20 14:16	
Chloromethane	ug/L	ND	1.0	10/13/20 14:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/13/20 14:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/13/20 14:16	
Dibromochloromethane	ug/L	ND	1.0	10/13/20 14:16	
Dibromomethane	ug/L	ND	1.0	10/13/20 14:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

METHOD BLANK: 3032719

Matrix: Water

Associated Lab Samples: 92499650001, 92499650002, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/13/20 14:16	
Diisopropyl ether	ug/L	ND	1.0	10/13/20 14:16	
Ethylbenzene	ug/L	ND	1.0	10/13/20 14:16	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/13/20 14:16	
m&p-Xylene	ug/L	ND	2.0	10/13/20 14:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/13/20 14:16	
Methylene Chloride	ug/L	ND	5.0	10/13/20 14:16	
Naphthalene	ug/L	ND	1.0	10/13/20 14:16	
o-Xylene	ug/L	ND	1.0	10/13/20 14:16	
p-Isopropyltoluene	ug/L	ND	1.0	10/13/20 14:16	
Styrene	ug/L	ND	1.0	10/13/20 14:16	
Tetrachloroethene	ug/L	ND	1.0	10/13/20 14:16	
Toluene	ug/L	ND	1.0	10/13/20 14:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/13/20 14:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/13/20 14:16	
Trichloroethene	ug/L	ND	1.0	10/13/20 14:16	
Trichlorofluoromethane	ug/L	ND	1.0	10/13/20 14:16	
Vinyl acetate	ug/L	ND	2.0	10/13/20 14:16	
Vinyl chloride	ug/L	ND	1.0	10/13/20 14:16	
Xylene (Total)	ug/L	ND	1.0	10/13/20 14:16	
1,2-Dichloroethane-d4 (S)	%	103	70-130	10/13/20 14:16	
4-Bromofluorobenzene (S)	%	97	70-130	10/13/20 14:16	
Toluene-d8 (S)	%	101	70-130	10/13/20 14:16	

LABORATORY CONTROL SAMPLE: 3032720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethene	ug/L	50	51.8	104	70-132	
1,1-Dichloropropene	ug/L	50	52.2	104	70-131	
1,2,3-Trichlorobenzene	ug/L	50	56.9	114	70-134	
1,2,3-Trichloropropane	ug/L	50	53.4	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	57.1	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	62.7	125	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	70-130	
1,2-Dichloropropane	ug/L	50	51.1	102	70-130	
1,3-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,3-Dichloropropane	ug/L	50	52.8	106	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3032720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	53.1	106	70-130	
2,2-Dichloropropane	ug/L	50	50.4	101	70-130	
2-Butanone (MEK)	ug/L	100	110	110	70-133	
2-Chlorotoluene	ug/L	50	53.1	106	70-130	
2-Hexanone	ug/L	100	112	112	70-130	
4-Chlorotoluene	ug/L	50	52.5	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-130	
Acetone	ug/L	100	116	116	70-144	
Benzene	ug/L	50	50.6	101	70-130	
Bromobenzene	ug/L	50	52.0	104	70-130	
Bromochloromethane	ug/L	50	50.1	100	70-130	
Bromodichloromethane	ug/L	50	49.8	100	70-130	
Bromoform	ug/L	50	50.4	101	70-131	
Bromomethane	ug/L	50	49.0	98	30-177	
Carbon tetrachloride	ug/L	50	50.7	101	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	39.2	78	46-131	
Chloroform	ug/L	50	50.3	101	70-130	
Chloromethane	ug/L	50	46.7	93	49-130	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	52.7	105	70-130	
Dichlorodifluoromethane	ug/L	50	45.1	90	52-134	
Diisopropyl ether	ug/L	50	49.7	99	70-131	
Ethylbenzene	ug/L	50	49.9	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	70-131	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-130	
Methylene Chloride	ug/L	50	47.7	95	68-130	
Naphthalene	ug/L	50	61.0	122	70-133	
o-Xylene	ug/L	50	51.2	102	70-130	
p-Isopropyltoluene	ug/L	50	53.4	107	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	50.9	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	43.9	88	61-130	
Vinyl acetate	ug/L	100	118	118	70-140	
Vinyl chloride	ug/L	50	46.1	92	59-142	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3032721 3032722											
Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.4	19.8	107	99	70-135	8	30
1,1,1-Trichloroethane	ug/L	ND	20	20	21.6	21.1	108	105	70-148	3	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.0	21.1	110	105	70-131	4	30
1,1,2-Trichloroethane	ug/L	ND	20	20	22.0	21.0	110	105	70-136	4	30
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.1	108	105	70-147	3	30
1,1-Dichloroethene	ug/L	ND	20	20	23.6	22.1	115	108	70-158	7	30
1,1-Dichloropropene	ug/L	ND	20	20	23.7	22.9	119	114	70-149	4	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.8	20.1	104	101	68-140	3	30
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	21.9	108	109	67-137	1	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	19.5	105	98	70-139	7	30
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.3	19.2	107	96	69-136	10	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.0	21.5	110	107	70-137	2	30
1,2-Dichlorobenzene	ug/L	ND	20	20	21.7	20.3	108	102	70-133	7	30
1,2-Dichloroethane	ug/L	ND	20	20	20.0	18.6	100	93	67-138	7	30
1,2-Dichloropropane	ug/L	ND	20	20	23.1	22.5	116	112	70-138	3	30
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	21.4	110	107	70-133	3	30
1,3-Dichloropropane	ug/L	ND	20	20	23.7	23.1	119	116	70-136	3	30
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.2	113	106	70-133	6	30
2,2-Dichloropropane	ug/L	ND	20	20	24.5	23.2	123	116	52-155	5	30
2-Butanone (MEK)	ug/L	ND	40	40	38.4	38.0	96	95	61-147	1	30
2-Chlorotoluene	ug/L	ND	20	20	23.0	22.1	115	111	70-141	4	30
2-Hexanone	ug/L	ND	40	40	39.8	39.5	100	99	67-139	1	30
4-Chlorotoluene	ug/L	ND	20	20	22.5	21.8	113	109	70-135	3	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	37.5	36.2	94	91	67-136	3	30
Acetone	ug/L	ND	40	40	38.6	37.3	96	93	55-159	3	30
Benzene	ug/L	ND	20	20	22.7	22.3	113	112	67-150	2	30
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	70-134	5	30
Bromochloromethane	ug/L	ND	20	20	23.2	21.4	116	107	70-146	8	30
Bromodichloromethane	ug/L	ND	20	20	19.6	19.2	98	96	70-138	2	30
Bromoform	ug/L	ND	20	20	19.0	17.6	95	88	57-138	8	30
Bromomethane	ug/L	ND	20	20	21.3	21.6	107	108	10-200	1	30 IK
Carbon tetrachloride	ug/L	ND	20	20	20.2	20.5	101	103	70-147	2	30
Chlorobenzene	ug/L	ND	20	20	22.6	21.8	113	109	70-137	3	30
Chloroethane	ug/L	ND	20	20	24.2	23.0	121	115	51-166	5	30
Chloroform	ug/L	ND	20	20	22.4	21.9	109	106	70-144	3	30
Chloromethane	ug/L	ND	20	20	18.4	17.4	92	87	24-161	6	30
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	20.3	106	102	67-148	4	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.2	21.6	116	108	70-142	7	30
Dibromochloromethane	ug/L	ND	20	20	20.9	20.1	105	100	68-138	4	30
Dibromomethane	ug/L	ND	20	20	21.3	20.3	107	101	70-134	5	30
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	16.5	84	83	43-155	2	30
Diisopropyl ether	ug/L	ND	20	20	19.2	17.9	96	90	65-146	7	30
Ethylbenzene	ug/L	ND	20	20	21.8	21.7	109	109	68-143	0	30
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.1	22.7	110	114	62-151	3	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3032721 3032722											
Parameter	Units	92499650004		MS		MSD		MS		MSD	
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	Limits	Max
											RPD
m&p-Xylene	ug/L	ND	40	40	43.9	44.3	110	111	53-157	1	30
Methyl-tert-butyl ether	ug/L	ND	20	20	22.3	20.7	108	101	59-156	7	30
Methylene Chloride	ug/L	ND	20	20	19.7	18.7	99	93	64-148	5	30
Naphthalene	ug/L	ND	20	20	21.5	21.0	106	104	57-150	2	30
o-Xylene	ug/L	ND	20	20	22.1	21.6	111	108	68-143	3	30
p-Isopropyltoluene	ug/L	ND	20	20	22.2	21.4	111	107	70-141	4	30
Styrene	ug/L	ND	20	20	21.6	21.5	108	108	70-136	0	30
Tetrachloroethene	ug/L	ND	20	20	21.1	21.4	106	107	70-139	1	30
Toluene	ug/L	ND	20	20	22.2	21.6	111	108	47-157	3	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.4	21.5	112	107	70-149	4	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.2	21.2	111	106	70-138	5	30
Trichloroethene	ug/L	ND	20	20	21.5	21.5	107	108	70-149	0	30
Trichlorofluoromethane	ug/L	ND	20	20	19.3	19.0	96	95	61-154	2	30
Vinyl acetate	ug/L	ND	40	40	46.3	43.0	116	107	48-156	7	30
Vinyl chloride	ug/L	ND	20	20	19.5	18.9	97	95	55-172	3	30
Xylene (Total)	ug/L	ND	60	60	66.0	65.9	110	110	66-145	0	30
1,2-Dichloroethane-d4 (S)	%						91	89	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						96	98	70-130		

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch:	572737	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3510C	Analysis Description:	8082 GCS PCB
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

METHOD BLANK: 3033080 Matrix: Water

Associated Lab Samples: 92499650001, 92499650002, 92499650003, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	10/15/20 03:03	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	10/15/20 03:03	
Decachlorobiphenyl (S)	%	39	10-181	10/15/20 03:03	

LABORATORY CONTROL SAMPLE: 3033081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	3.7	73	41-137	
PCB-1260 (Aroclor 1260)	ug/L	5	3.5	71	42-156	
Decachlorobiphenyl (S)	%			47	10-181	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3033082 3033083

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	5	5	2.5	2.8	50	55	22-145	10	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	5	5	2.7	2.9	55	59	10-167	7	30	
Decachlorobiphenyl (S)	%						47	52	10-181			

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899
Pace Project No.: 92499650

QC Batch:	572436	Analysis Method:	EPA 8270E
QC Batch Method:	EPA 3510C	Analysis Description:	8270E Water MSSV RVE
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92499650001

METHOD BLANK: 3031696 Matrix: Water

Associated Lab Samples: 92499650001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	10/12/20 21:50	
1,2-Dichlorobenzene	ug/L	ND	10.0	10/12/20 21:50	
1,3-Dichlorobenzene	ug/L	ND	10.0	10/12/20 21:50	
1,4-Dichlorobenzene	ug/L	ND	10.0	10/12/20 21:50	
1-Methylnaphthalene	ug/L	ND	10.0	10/12/20 21:50	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	10/12/20 21:50	
2,4,5-Trichlorophenol	ug/L	ND	10.0	10/12/20 21:50	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/12/20 21:50	
2,4-Dichlorophenol	ug/L	ND	10.0	10/12/20 21:50	
2,4-Dimethylphenol	ug/L	ND	10.0	10/12/20 21:50	
2,4-Dinitrophenol	ug/L	ND	50.0	10/12/20 21:50	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/12/20 21:50	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/12/20 21:50	
2-Chloronaphthalene	ug/L	ND	10.0	10/12/20 21:50	
2-Chlorophenol	ug/L	ND	10.0	10/12/20 21:50	
2-Methylnaphthalene	ug/L	ND	10.0	10/12/20 21:50	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/12/20 21:50	
2-Nitroaniline	ug/L	ND	20.0	10/12/20 21:50	
2-Nitrophenol	ug/L	ND	10.0	10/12/20 21:50	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/12/20 21:50	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/12/20 21:50	
3-Nitroaniline	ug/L	ND	20.0	10/12/20 21:50	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	10/12/20 21:50	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/12/20 21:50	
4-Chloro-3-methylphenol	ug/L	ND	10.0	10/12/20 21:50	
4-Chloroaniline	ug/L	ND	20.0	10/12/20 21:50	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/12/20 21:50	
4-Nitroaniline	ug/L	ND	20.0	10/12/20 21:50	
4-Nitrophenol	ug/L	ND	50.0	10/12/20 21:50	
Acenaphthene	ug/L	ND	10.0	10/12/20 21:50	
Acenaphthylene	ug/L	ND	10.0	10/12/20 21:50	
Aniline	ug/L	ND	10.0	10/12/20 21:50	
Anthracene	ug/L	ND	10.0	10/12/20 21:50	
Benzo(a)anthracene	ug/L	ND	10.0	10/12/20 21:50	
Benzo(a)pyrene	ug/L	ND	10.0	10/12/20 21:50	
Benzo(b)fluoranthene	ug/L	ND	10.0	10/12/20 21:50	
Benzo(g,h,i)perylene	ug/L	ND	10.0	10/12/20 21:50	
Benzo(k)fluoranthene	ug/L	ND	10.0	10/12/20 21:50	
Benzoic Acid	ug/L	ND	50.0	10/12/20 21:50	
Benzyl alcohol	ug/L	ND	20.0	10/12/20 21:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

METHOD BLANK: 3031696

Matrix: Water

Associated Lab Samples: 92499650001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/12/20 21:50	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/12/20 21:50	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	10/12/20 21:50	
Butylbenzylphthalate	ug/L	ND	10.0	10/12/20 21:50	
Chrysene	ug/L	ND	10.0	10/12/20 21:50	
Di-n-butylphthalate	ug/L	ND	10.0	10/12/20 21:50	
Di-n-octylphthalate	ug/L	ND	10.0	10/12/20 21:50	
Dibenz(a,h)anthracene	ug/L	ND	10.0	10/12/20 21:50	
Dibenzofuran	ug/L	ND	10.0	10/12/20 21:50	
Diethylphthalate	ug/L	ND	10.0	10/12/20 21:50	
Dimethylphthalate	ug/L	ND	10.0	10/12/20 21:50	
Fluoranthene	ug/L	ND	10.0	10/12/20 21:50	
Fluorene	ug/L	ND	10.0	10/12/20 21:50	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/12/20 21:50	
Hexachlorobenzene	ug/L	ND	10.0	10/12/20 21:50	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/12/20 21:50	
Hexachloroethane	ug/L	ND	10.0	10/12/20 21:50	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	10/12/20 21:50	
Isophorone	ug/L	ND	10.0	10/12/20 21:50	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	10/12/20 21:50	
N-Nitrosodimethylamine	ug/L	ND	10.0	10/12/20 21:50	
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/12/20 21:50	
Naphthalene	ug/L	ND	10.0	10/12/20 21:50	
Nitrobenzene	ug/L	ND	10.0	10/12/20 21:50	
Pentachlorophenol	ug/L	ND	20.0	10/12/20 21:50	
Phenanthrene	ug/L	ND	10.0	10/12/20 21:50	
Phenol	ug/L	ND	10.0	10/12/20 21:50	
Pyrene	ug/L	ND	10.0	10/12/20 21:50	
2,4,6-Tribromophenol (S)	%	77	10-144	10/12/20 21:50	
2-Fluorobiphenyl (S)	%	90	10-130	10/12/20 21:50	
2-Fluorophenol (S)	%	58	10-130	10/12/20 21:50	
Nitrobenzene-d5 (S)	%	94	10-144	10/12/20 21:50	
Phenol-d6 (S)	%	41	10-130	10/12/20 21:50	
Terphenyl-d14 (S)	%	124	34-163	10/12/20 21:50	

LABORATORY CONTROL SAMPLE: 3031697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.2	74	18-130	
1,2-Dichlorobenzene	ug/L	50	35.5	71	20-130	
1,3-Dichlorobenzene	ug/L	50	34.0	68	18-130	
1,4-Dichlorobenzene	ug/L	50	35.6	71	18-130	
1-Methylnaphthalene	ug/L	50	38.9	78	29-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	53.7	107	28-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3031697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	50.5	101	35-130	
2,4,6-Trichlorophenol	ug/L	50	50.0	100	31-130	
2,4-Dichlorophenol	ug/L	50	48.3	97	35-130	
2,4-Dimethylphenol	ug/L	50	52.1	104	34-130	
2,4-Dinitrophenol	ug/L	250	229	92	10-153	
2,4-Dinitrotoluene	ug/L	50	51.5	103	37-136	
2,6-Dinitrotoluene	ug/L	50	52.8	106	33-136	
2-Chloronaphthalene	ug/L	50	44.5	89	26-130	
2-Chlorophenol	ug/L	50	44.5	89	37-130	
2-Methylnaphthalene	ug/L	50	40.2	80	29-130	
2-Methylphenol(o-Cresol)	ug/L	50	41.1	82	35-130	
2-Nitroaniline	ug/L	100	95.1	95	37-130	
2-Nitrophenol	ug/L	50	48.9	98	32-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	38.0	76	34-130	
3,3'-Dichlorobenzidine	ug/L	100	90.5	90	34-136	
3-Nitroaniline	ug/L	100	91.8	92	37-138	
4,6-Dinitro-2-methylphenol	ug/L	100	107	107	21-157	
4-Bromophenylphenyl ether	ug/L	50	53.0	106	38-130	
4-Chloro-3-methylphenol	ug/L	100	92.1	92	37-130	
4-Chloroaniline	ug/L	100	92.8	93	38-130	
4-Chlorophenylphenyl ether	ug/L	50	46.7	93	33-130	
4-Nitroaniline	ug/L	100	89.3	89	42-137	
4-Nitrophenol	ug/L	250	121	49	10-130	
Acenaphthene	ug/L	50	45.0	90	33-130	
Acenaphthylene	ug/L	50	46.0	92	35-130	
Aniline	ug/L	50	38.0	76	22-130	
Anthracene	ug/L	50	45.6	91	48-130	
Benzo(a)anthracene	ug/L	50	48.1	96	48-137	
Benzo(a)pyrene	ug/L	50	51.2	102	49-138	
Benzo(b)fluoranthene	ug/L	50	51.2	102	52-138	
Benzo(g,h,i)perylene	ug/L	50	49.4	99	48-140	
Benzo(k)fluoranthene	ug/L	50	55.2	110	48-139	
Benzoic Acid	ug/L	250	92.7	37	10-130	
Benzyl alcohol	ug/L	100	80.9	81	35-130	
bis(2-Chloroethoxy)methane	ug/L	50	47.2	94	34-130	
bis(2-Chloroethyl) ether	ug/L	50	46.5	93	36-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.6	93	32-165	
Butylbenzylphthalate	ug/L	50	51.9	104	34-161	
Chrysene	ug/L	50	49.7	99	47-131	
Di-n-butylphthalate	ug/L	50	47.7	95	39-144	
Di-n-octylphthalate	ug/L	50	45.0	90	30-170	
Dibenz(a,h)anthracene	ug/L	50	48.2	96	49-138	
Dibenzofuran	ug/L	50	47.5	95	33-130	
Diethylphthalate	ug/L	50	48.1	96	38-131	
Dimethylphthalate	ug/L	50	48.1	96	37-130	
Fluoranthene	ug/L	50	47.7	95	46-137	
Fluorene	ug/L	50	46.7	93	37-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899
Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3031697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	34.9	70	11-130	
Hexachlorobenzene	ug/L	50	51.6	103	38-130	
Hexachlorocyclopentadiene	ug/L	50	35.7	71	10-130	
Hexachloroethane	ug/L	50	33.1	66	14-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	49.4	99	41-130	
Isophorone	ug/L	50	49.5	99	33-130	
N-Nitroso-di-n-propylamine	ug/L	50	49.9	100	36-130	
N-Nitrosodimethylamine	ug/L	50	36.7	73	34-130	
N-Nitrosodiphenylamine	ug/L	50	53.4	107	37-130	
Naphthalene	ug/L	50	38.9	78	30-130	
Nitrobenzene	ug/L	50	49.2	98	36-130	
Pentachlorophenol	ug/L	100	94.6	95	23-149	
Phenanthrene	ug/L	50	50.0	100	44-130	
Phenol	ug/L	50	27.7	55	18-130	
Pyrene	ug/L	50	53.0	106	47-134	
2,4,6-Tribromophenol (S)	%			106	10-144	
2-Fluorobiphenyl (S)	%			90	10-130	
2-Fluorophenol (S)	%			59	10-130	
Nitrobenzene-d5 (S)	%			96	10-144	
Phenol-d6 (S)	%			48	10-130	
Terphenyl-d14 (S)	%			119	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031698 3031699

Parameter	Units	92494245009	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
1,2,4-Trichlorobenzene	ug/L	ND	50	50	36.8	36.9	74	74	10-130	0	30		
1,2-Dichlorobenzene	ug/L	ND	50	50	36.4	35.8	73	72	10-130	2	30		
1,3-Dichlorobenzene	ug/L	ND	50	50	34.3	33.9	69	68	10-130	1	30		
1,4-Dichlorobenzene	ug/L	ND	50	50	36.8	35.2	74	70	10-130	4	30		
1-Methylnaphthalene	ug/L	ND	50	50	41.5	41.9	83	84	10-130	1	30		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	40.0	39.8	80	80	12-142	1	30		
2,4,5-Trichlorophenol	ug/L	ND	50	50	58.0	63.0	116	126	10-143	8	30		
2,4,6-Trichlorophenol	ug/L	ND	50	50	53.0	54.4	106	109	10-147	3	30		
2,4-Dichlorophenol	ug/L	ND	50	50	52.9	55.2	106	110	10-138	4	30		
2,4-Dimethylphenol	ug/L	ND	50	50	52.0	53.2	104	106	25-130	2	30		
2,4-Dinitrophenol	ug/L	ND	250	250	50.7	58.8	20	24	10-165	15	30		
2,4-Dinitrotoluene	ug/L	ND	50	50	49.8	52.8	100	106	29-148	6	30		
2,6-Dinitrotoluene	ug/L	ND	50	50	51.8	54.0	104	108	26-146	4	30		
2-Chloronaphthalene	ug/L	ND	50	50	45.1	44.3	90	89	11-130	2	30		
2-Chlorophenol	ug/L	ND	50	50	48.0	48.6	96	97	10-133	1	30		
2-Methylnaphthalene	ug/L	ND	50	50	42.5	42.9	85	86	13-130	1	30		
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	48.4	48.3	97	97	20-130	0	30		
2-Nitroaniline	ug/L	ND	100	100	108	113	108	113	24-136	5	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031698 3031699											
Parameter	Units	92494245009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Nitrophenol	ug/L	ND	50	50	50.1	50.7	100	101	10-153	1	30
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	46.8	47.1	94	94	16-130	1	30
3,3'-Dichlorobenzidine	ug/L	ND	100	100	100	113	100	113	10-153	12	30
3-Nitroaniline	ug/L	ND	100	100	96.2	108	96	108	22-151	11	30
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	49.9	57.7	50	58	10-180	15	30
4-Bromophenylphenyl ether	ug/L	ND	50	50	49.5	52.0	99	104	25-130	5	30
4-Chloro-3-methylphenol	ug/L	ND	100	100	108	116	108	116	25-133	7	30
4-Chloroaniline	ug/L	ND	100	100	86.7	91.9	87	92	14-132	6	30
4-Chlorophenylphenyl ether	ug/L	ND	50	50	47.7	48.6	95	97	19-130	2	30
4-Nitroaniline	ug/L	ND	100	100	101	113	101	113	29-150	11	30
4-Nitrophenol	ug/L	ND	250	250	133	150	53	60	10-130	12	30
Acenaphthene	ug/L	ND	50	50	44.5	44.0	89	88	16-130	1	30
Acenaphthylene	ug/L	ND	50	50	47.0	46.9	94	94	15-137	0	30
Aniline	ug/L	ND	50	50	38.7	39.0	77	78	10-130	1	30
Anthracene	ug/L	ND	50	50	44.1	47.6	88	95	37-136	8	30
Benzo(a)anthracene	ug/L	ND	50	50	50.5	54.9	101	110	40-145	8	30
Benzo(a)pyrene	ug/L	ND	50	50	49.4	54.3	99	109	41-146	10	30
Benzo(b)fluoranthene	ug/L	ND	50	50	48.2	54.6	96	109	39-151	13	30
Benzo(g,h,i)perylene	ug/L	ND	50	50	50.0	53.6	100	107	40-147	7	30
Benzo(k)fluoranthene	ug/L	ND	50	50	48.8	52.9	98	106	40-146	8	30
Benzoic Acid	ug/L	ND	250	250	21.1J	25J	8	10	10-130		30 M1
Benzyl alcohol	ug/L	ND	100	100	101	101	101	101	25-130	1	30
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	45.6	45.9	91	92	23-130	1	30
bis(2-Chloroethyl) ether	ug/L	ND	50	50	47.9	48.5	96	97	25-130	1	30
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	57.1	62.5	114	125	28-166	9	30
Butylbenzylphthalate	ug/L	ND	50	50	57.3	63.2	115	126	33-165	10	30
Chrysene	ug/L	ND	50	50	48.7	53.8	97	108	38-141	10	30
Di-n-butylphthalate	ug/L	ND	50	50	54.7	59.8	109	120	32-153	9	30
Di-n-octylphthalate	ug/L	ND	50	50	62.9	68.8	126	138	30-175	9	30 v1
Dibenz(a,h)anthracene	ug/L	ND	50	50	51.7	55.9	103	112	39-148	8	30
Dibenzofuran	ug/L	ND	50	50	46.3	46.4	93	93	20-130	0	30
Diethylphthalate	ug/L	ND	50	50	49.6	51.9	99	104	28-142	4	30
Dimethylphthalate	ug/L	ND	50	50	47.1	48.4	94	97	26-136	3	30
Fluoranthene	ug/L	ND	50	50	51.0	56.2	102	112	39-143	10	30
Fluorene	ug/L	ND	50	50	46.6	47.4	93	95	24-132	2	30
Hexachloro-1,3-butadiene	ug/L	ND	50	50	35.2	34.4	70	69	10-130	2	30
Hexachlorobenzene	ug/L	ND	50	50	45.8	49.0	92	98	29-130	7	30
Hexachlorocyclopentadiene	ug/L	ND	50	50	30.9	29.7	62	59	10-130	4	30
Hexachloroethane	ug/L	ND	50	50	34.4	33.2	69	66	10-130	4	30
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	51.6	55.8	103	112	39-148	8	30
Isophorone	ug/L	ND	50	50	45.4	46.2	91	92	23-130	2	30
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	47.7	48.3	95	97	25-130	1	30
N-Nitrosodimethylamine	ug/L	ND	50	50	35.2	35.7	70	71	22-130	1	30
N-Nitrosodiphenylamine	ug/L	ND	50	50	49.6	53.8	99	108	26-134	8	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031698				3031699									
Parameter	Units	92494245009	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
Naphthalene	ug/L	ND	50	50	39.2	39.2	78	78	14-130		0	30	
Nitrobenzene	ug/L	ND	50	50	46.1	47.3	92	95	25-130		3	30	
Pentachlorophenol	ug/L	ND	100	100	107	120	107	120	10-175		12	30	
Phenanthrene	ug/L	ND	50	50	47.4	51.0	95	102	36-133		7	30	
Phenol	ug/L	ND	50	50	29.4	28.0	59	56	10-130		5	30	
Pyrene	ug/L	ND	50	50	47.3	52.0	95	104	40-143		9	30	
2,4,6-Tribromophenol (S)	%						117	129	10-144				
2-Fluorobiphenyl (S)	%						86	84	10-130				
2-Fluorophenol (S)	%						66	66	10-130				
Nitrobenzene-d5 (S)	%						92	93	10-144				
Phenol-d6 (S)	%						55	57	10-130				
Terphenyl-d14 (S)	%						100	111	34-163				

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

QC Batch: 572738

Analysis Method: EPA 8270E

QC Batch Method: EPA 3510C

Analysis Description: 8270E Water MSSV RVE

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92499650002, 92499650004, 92499650005

METHOD BLANK: 3033084

Matrix: Water

Associated Lab Samples: 92499650002, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	10/13/20 11:50	
1,2-Dichlorobenzene	ug/L	ND	10.0	10/13/20 11:50	
1,3-Dichlorobenzene	ug/L	ND	10.0	10/13/20 11:50	
1,4-Dichlorobenzene	ug/L	ND	10.0	10/13/20 11:50	
1-Methylnaphthalene	ug/L	ND	10.0	10/13/20 11:50	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	10/13/20 11:50	
2,4,5-Trichlorophenol	ug/L	ND	10.0	10/13/20 11:50	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/13/20 11:50	
2,4-Dichlorophenol	ug/L	ND	10.0	10/13/20 11:50	
2,4-Dimethylphenol	ug/L	ND	10.0	10/13/20 11:50	
2,4-Dinitrophenol	ug/L	ND	50.0	10/13/20 11:50	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/13/20 11:50	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/13/20 11:50	
2-Chloronaphthalene	ug/L	ND	10.0	10/13/20 11:50	
2-Chlorophenol	ug/L	ND	10.0	10/13/20 11:50	
2-Methylnaphthalene	ug/L	ND	10.0	10/13/20 11:50	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/13/20 11:50	
2-Nitroaniline	ug/L	ND	20.0	10/13/20 11:50	
2-Nitrophenol	ug/L	ND	10.0	10/13/20 11:50	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/13/20 11:50	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/13/20 11:50	
3-Nitroaniline	ug/L	ND	20.0	10/13/20 11:50	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	10/13/20 11:50	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/13/20 11:50	
4-Chloro-3-methylphenol	ug/L	ND	10.0	10/13/20 11:50	
4-Chloroaniline	ug/L	ND	20.0	10/13/20 11:50	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/13/20 11:50	
4-Nitroaniline	ug/L	ND	20.0	10/13/20 11:50	
4-Nitrophenol	ug/L	ND	50.0	10/13/20 11:50	
Acenaphthene	ug/L	ND	10.0	10/13/20 11:50	
Acenaphthylene	ug/L	ND	10.0	10/13/20 11:50	
Aniline	ug/L	ND	10.0	10/13/20 11:50	
Anthracene	ug/L	ND	10.0	10/13/20 11:50	
Benzo(a)anthracene	ug/L	ND	10.0	10/13/20 11:50	
Benzo(a)pyrene	ug/L	ND	10.0	10/13/20 11:50	
Benzo(b)fluoranthene	ug/L	ND	10.0	10/13/20 11:50	
Benzo(g,h,i)perylene	ug/L	ND	10.0	10/13/20 11:50	
Benzo(k)fluoranthene	ug/L	ND	10.0	10/13/20 11:50	
Benzoic Acid	ug/L	ND	50.0	10/13/20 11:50	
Benzyl alcohol	ug/L	ND	20.0	10/13/20 11:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

METHOD BLANK: 3033084

Matrix: Water

Associated Lab Samples: 92499650002, 92499650004, 92499650005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/13/20 11:50	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/13/20 11:50	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	10/13/20 11:50	
Butylbenzylphthalate	ug/L	ND	10.0	10/13/20 11:50	
Chrysene	ug/L	ND	10.0	10/13/20 11:50	
Di-n-butylphthalate	ug/L	ND	10.0	10/13/20 11:50	
Di-n-octylphthalate	ug/L	ND	10.0	10/13/20 11:50	
Dibenz(a,h)anthracene	ug/L	ND	10.0	10/13/20 11:50	
Dibenzofuran	ug/L	ND	10.0	10/13/20 11:50	
Diethylphthalate	ug/L	ND	10.0	10/13/20 11:50	
Dimethylphthalate	ug/L	ND	10.0	10/13/20 11:50	
Fluoranthene	ug/L	ND	10.0	10/13/20 11:50	
Fluorene	ug/L	ND	10.0	10/13/20 11:50	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/13/20 11:50	
Hexachlorobenzene	ug/L	ND	10.0	10/13/20 11:50	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/13/20 11:50	
Hexachloroethane	ug/L	ND	10.0	10/13/20 11:50	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	10/13/20 11:50	
Isophorone	ug/L	ND	10.0	10/13/20 11:50	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	10/13/20 11:50	
N-Nitrosodimethylamine	ug/L	ND	10.0	10/13/20 11:50	v1
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/13/20 11:50	
Naphthalene	ug/L	ND	10.0	10/13/20 11:50	
Nitrobenzene	ug/L	ND	10.0	10/13/20 11:50	
Pentachlorophenol	ug/L	ND	20.0	10/13/20 11:50	
Phenanthrene	ug/L	ND	10.0	10/13/20 11:50	
Phenol	ug/L	ND	10.0	10/13/20 11:50	
Pyrene	ug/L	ND	10.0	10/13/20 11:50	
2,4,6-Tribromophenol (S)	%	111	10-144	10/13/20 11:50	
2-Fluorobiphenyl (S)	%	94	10-130	10/13/20 11:50	
2-Fluorophenol (S)	%	75	10-130	10/13/20 11:50	
Nitrobenzene-d5 (S)	%	107	10-144	10/13/20 11:50	
Phenol-d6 (S)	%	62	10-130	10/13/20 11:50	
Terphenyl-d14 (S)	%	134	34-163	10/13/20 11:50	

LABORATORY CONTROL SAMPLE: 3033085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.9	80	18-130	
1,2-Dichlorobenzene	ug/L	50	36.5	73	20-130	
1,3-Dichlorobenzene	ug/L	50	33.8	68	18-130	
1,4-Dichlorobenzene	ug/L	50	35.3	71	18-130	
1-Methylnaphthalene	ug/L	50	46.9	94	29-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	43.0	86	28-130	

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3033085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	50.8	102	35-130	
2,4,6-Trichlorophenol	ug/L	50	51.0	102	31-130	
2,4-Dichlorophenol	ug/L	50	51.9	104	35-130	
2,4-Dimethylphenol	ug/L	50	51.1	102	34-130	
2,4-Dinitrophenol	ug/L	250	185	74	10-153	
2,4-Dinitrotoluene	ug/L	50	56.2	112	37-136	
2,6-Dinitrotoluene	ug/L	50	54.5	109	33-136	
2-Chloronaphthalene	ug/L	50	45.6	91	26-130	
2-Chlorophenol	ug/L	50	46.4	93	37-130	
2-Methylnaphthalene	ug/L	50	46.9	94	29-130	
2-Methylphenol(o-Cresol)	ug/L	50	46.9	94	35-130	
2-Nitroaniline	ug/L	100	91.7	92	37-130	
2-Nitrophenol	ug/L	50	52.8	106	32-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	46.8	94	34-130	
3,3'-Dichlorobenzidine	ug/L	100	103	103	34-136	
3-Nitroaniline	ug/L	100	109	109	37-138	
4,6-Dinitro-2-methylphenol	ug/L	100	103	103	21-157	
4-Bromophenylphenyl ether	ug/L	50	51.1	102	38-130	
4-Chloro-3-methylphenol	ug/L	100	107	107	37-130	
4-Chloroaniline	ug/L	100	96.9	97	38-130	
4-Chlorophenylphenyl ether	ug/L	50	51.8	104	33-130	
4-Nitroaniline	ug/L	100	107	107	42-137	
4-Nitrophenol	ug/L	250	155	62	10-130	
Acenaphthene	ug/L	50	47.4	95	33-130	
Acenaphthylene	ug/L	50	48.3	97	35-130	
Aniline	ug/L	50	35.0	70	22-130	
Anthracene	ug/L	50	46.2	92	48-130	
Benzo(a)anthracene	ug/L	50	49.9	100	48-137	
Benzo(a)pyrene	ug/L	50	50.7	101	49-138	
Benzo(b)fluoranthene	ug/L	50	52.1	104	52-138	
Benzo(g,h,i)perylene	ug/L	50	46.5	93	48-140	
Benzo(k)fluoranthene	ug/L	50	51.5	103	48-139	
Benzoic Acid	ug/L	250	17.9J	7	10-130	L2
Benzyl alcohol	ug/L	100	101	101	35-130	
bis(2-Chloroethoxy)methane	ug/L	50	50.5	101	34-130	
bis(2-Chloroethyl) ether	ug/L	50	53.1	106	36-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	51.2	102	32-165	
Butylbenzylphthalate	ug/L	50	56.4	113	34-161	
Chrysene	ug/L	50	47.8	96	47-131	
Di-n-butylphthalate	ug/L	50	59.1	118	39-144	
Di-n-octylphthalate	ug/L	50	56.8	114	30-170	
Dibenz(a,h)anthracene	ug/L	50	46.4	93	49-138	
Dibenzofuran	ug/L	50	49.6	99	33-130	
Diethylphthalate	ug/L	50	53.8	108	38-131	
Dimethylphthalate	ug/L	50	52.4	105	37-130	
Fluoranthene	ug/L	50	54.1	108	46-137	
Fluorene	ug/L	50	50.5	101	37-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

LABORATORY CONTROL SAMPLE: 3033085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	37.7	75	11-130	
Hexachlorobenzene	ug/L	50	50.4	101	38-130	
Hexachlorocyclopentadiene	ug/L	50	38.6	77	10-130	
Hexachloroethane	ug/L	50	31.9	64	14-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	47.6	95	41-130	
Isophorone	ug/L	50	53.4	107	33-130	
N-Nitroso-di-n-propylamine	ug/L	50	54.8	110	36-130	
N-Nitrosodimethylamine	ug/L	50	44.7	89	34-130 v1	
N-Nitrosodiphenylamine	ug/L	50	48.3	97	37-130	
Naphthalene	ug/L	50	43.9	88	30-130	
Nitrobenzene	ug/L	50	48.6	97	36-130	
Pentachlorophenol	ug/L	100	109	109	23-149	
Phenanthrene	ug/L	50	48.7	97	44-130	
Phenol	ug/L	50	32.9	66	18-130	
Pyrene	ug/L	50	48.0	96	47-134	
2,4,6-Tribromophenol (S)	%			119	10-144	
2-Fluorobiphenyl (S)	%			95	10-130	
2-Fluorophenol (S)	%			73	10-130	
Nitrobenzene-d5 (S)	%			101	10-144	
Phenol-d6 (S)	%			63	10-130	
Terphenyl-d14 (S)	%			114	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3033086 3033087

Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	50	50	27.9	27.0	56	54	10-130	3	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	25.2	22.9	50	46	10-130	10	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	24.2	22.5	48	45	10-130	7	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	25.0	22.7	50	45	10-130	10	30	
1-Methylnaphthalene	ug/L	ND	50	50	33.5	32.0	67	64	10-130	5	30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	31.3	28.1	63	56	12-142	11	30	
2,4,5-Trichlorophenol	ug/L	ND	50	50	34.9	34.2	70	68	10-143	2	30	
2,4,6-Trichlorophenol	ug/L	ND	50	50	36.1	34.1	72	68	10-147	6	30	
2,4-Dichlorophenol	ug/L	ND	50	50	37.9	35.5	76	71	10-138	7	30	
2,4-Dimethylphenol	ug/L	ND	50	50	37.6	34.2	75	68	25-130	10	30	
2,4-Dinitrophenol	ug/L	ND	250	250	179	167	72	67	10-165	7	30	
2,4-Dinitrotoluene	ug/L	ND	50	50	43.2	40.0	86	80	29-148	8	30	
2,6-Dinitrotoluene	ug/L	ND	50	50	39.7	37.7	79	75	26-146	5	30	
2-Chloronaphthalene	ug/L	ND	50	50	32.9	31.3	66	63	11-130	5	30	
2-Chlorophenol	ug/L	ND	50	50	33.9	31.0	68	62	10-133	9	30	
2-Methylnaphthalene	ug/L	ND	50	50	34.1	32.1	68	64	13-130	6	30	
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	38.0	32.3	76	65	20-130	16	30	
2-Nitroaniline	ug/L	ND	100	100	68.1	68.5	68	69	24-136	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899
Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3033086 3033087											
Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Nitrophenol	ug/L	ND	50	50	37.4	35.3	75	71	10-153	6	30
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	36.8	31.8	74	64	16-130	14	30
3,3'-Dichlorobenzidine	ug/L	ND	100	100	77.5	72.8	77	73	10-153	6	30
3-Nitroaniline	ug/L	ND	100	100	77.4	74.0	77	74	22-151	4	30
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	78.8	71.9	79	72	10-180	9	30
4-Bromophenylphenyl ether	ug/L	ND	50	50	37.2	36.0	74	72	25-130	3	30
4-Chloro-3-methylphenol	ug/L	ND	100	100	78.6	72.1	79	72	25-133	9	30
4-Chloroaniline	ug/L	ND	100	100	66.1	60.1	66	60	14-132	9	30
4-Chlorophenylphenyl ether	ug/L	ND	50	50	38.1	37.1	76	74	19-130	3	30
4-Nitroaniline	ug/L	ND	100	100	85.4	77.9	85	78	29-150	9	30
4-Nitrophenol	ug/L	ND	250	250	152	141	61	56	10-130	7	30
Acenaphthene	ug/L	ND	50	50	35.6	33.2	71	66	16-130	7	30
Acenaphthylene	ug/L	ND	50	50	35.6	33.6	71	67	15-137	6	30
Aniline	ug/L	ND	50	50	24.6	16.2	49	32	10-130	41	30 R1
Anthracene	ug/L	ND	50	50	34.4	32.0	69	64	37-136	7	30
Benzo(a)anthracene	ug/L	ND	50	50	39.1	36.6	78	73	40-145	7	30
Benzo(a)pyrene	ug/L	ND	50	50	41.2	37.2	82	74	41-146	10	30
Benzo(b)fluoranthene	ug/L	ND	50	50	40.4	36.8	81	74	39-151	9	30
Benzo(g,h,i)perylene	ug/L	ND	50	50	41.1	35.5	82	71	40-147	15	30
Benzo(k)fluoranthene	ug/L	ND	50	50	41.9	37.3	84	75	40-146	12	30
Benzoic Acid	ug/L	ND	250	250	133	97.6	53	39	10-130	30	30
Benzyl alcohol	ug/L	ND	100	100	75.3	68.6	75	69	25-130	9	30
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	37.0	34.4	74	69	23-130	7	30
bis(2-Chloroethyl) ether	ug/L	ND	50	50	38.3	35.0	77	70	25-130	9	30
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	36.1	34.6	72	69	28-166	4	30
Butylbenzylphthalate	ug/L	ND	50	50	41.1	39.7	82	79	33-165	3	30
Chrysene	ug/L	ND	50	50	39.0	36.6	78	73	38-141	6	30
Di-n-butylphthalate	ug/L	ND	50	50	42.3	39.5	85	79	32-153	7	30
Di-n-octylphthalate	ug/L	ND	50	50	38.2	37.1	76	74	30-175	3	30
Dibenz(a,h)anthracene	ug/L	ND	50	50	40.9	35.6	82	71	39-148	14	30
Dibenzofuran	ug/L	ND	50	50	37.6	35.4	75	71	20-130	6	30
Diethylphthalate	ug/L	ND	50	50	42.9	39.8	86	80	28-142	7	30
Dimethylphthalate	ug/L	ND	50	50	40.4	37.8	81	76	26-136	7	30
Fluoranthene	ug/L	ND	50	50	42.0	38.3	84	77	39-143	9	30
Fluorene	ug/L	ND	50	50	37.8	35.7	76	71	24-132	6	30
Hexachloro-1,3-butadiene	ug/L	ND	50	50	24.8	24.0	50	48	10-130	4	30
Hexachlorobenzene	ug/L	ND	50	50	37.3	34.7	75	69	29-130	7	30
Hexachlorocyclopentadiene	ug/L	ND	50	50	25.7	24.7	51	49	10-130	4	30
Hexachloroethane	ug/L	ND	50	50	22.2	21.4	44	43	10-130	4	30
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	40.9	36.3	82	73	39-148	12	30
Isophorone	ug/L	ND	50	50	38.3	36.3	77	73	23-130	5	30
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	39.2	34.8	78	70	25-130	12	30
N-Nitrosodimethylamine	ug/L	ND	50	50	31.9	29.4	64	59	22-130	8	30
N-Nitrosodiphenylamine	ug/L	ND	50	50	36.1	34.1	72	68	26-134	6	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3033086 3033087												
Parameter	Units	92499650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	50	50	29.5	27.9	59	56	14-130	6	30	
Nitrobenzene	ug/L	ND	50	50	34.7	33.1	69	66	25-130	5	30	
Pentachlorophenol	ug/L	ND	100	100	81.8	75.1	82	75	10-175	9	30	
Phenanthrene	ug/L	ND	50	50	38.1	35.1	76	70	36-133	8	30	
Phenol	ug/L	ND	50	50	30.2	25.5	60	51	10-130	17	30	
Pyrene	ug/L	ND	50	50	38.6	35.7	77	71	40-143	8	30	
2,4,6-Tribromophenol (S)	%						79	70	10-144			
2-Fluorobiphenyl (S)	%						66	59	10-130			
2-Fluorophenol (S)	%						57	50	10-130			
Nitrobenzene-d5 (S)	%						70	63	10-144			
Phenol-d6 (S)	%						57	46	10-130			
Terphenyl-d14 (S)	%						83	75	34-163			

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QUALIFIERS

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWI Facility Proj#169001899

Pace Project No.: 92499650

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499650001	GW-MN05D-AWI-100620	EPA 3510C	572737	EPA 8082A	573205
92499650002	GW-MN05-AWI-100720	EPA 3510C	572737	EPA 8082A	573205
92499650003	GW-MN05-F-AWI-100720	EPA 3510C	572737	EPA 8082A	573205
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 3510C	572737	EPA 8082A	573205
92499650005	GW-MN04-DUP-AWI-100720	EPA 3510C	572737	EPA 8082A	573205
92499650001	GW-MN05D-AWI-100620	EPA 3010A	572126	EPA 6010D	572182
92499650002	GW-MN05-AWI-100720	EPA 3010A	572126	EPA 6010D	572182
92499650003	GW-MN05-F-AWI-100720	EPA 3010A	572126	EPA 6010D	572182
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 3010A	572126	EPA 6010D	572182
92499650005	GW-MN04-DUP-AWI-100720	EPA 3010A	572126	EPA 6010D	572182
92499650001	GW-MN05D-AWI-100620	EPA 7470A	572203	EPA 7470A	572641
92499650002	GW-MN05-AWI-100720	EPA 7470A	572203	EPA 7470A	572641
92499650003	GW-MN05-F-AWI-100720	EPA 7470A	572203	EPA 7470A	572641
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 7470A	572203	EPA 7470A	572641
92499650005	GW-MN04-DUP-AWI-100720	EPA 7470A	572203	EPA 7470A	572641
92499650001	GW-MN05D-AWI-100620	EPA 3510C	572436	EPA 8270E	572664
92499650002	GW-MN05-AWI-100720	EPA 3510C	572738	EPA 8270E	573065
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 3510C	572738	EPA 8270E	573065
92499650005	GW-MN04-DUP-AWI-100720	EPA 3510C	572738	EPA 8270E	573065
92499650001	GW-MN05D-AWI-100620	EPA 8260D	572627		
92499650002	GW-MN05-AWI-100720	EPA 8260D	572627		
92499650004	GW-MN04-AWI-100720 MS/MSD	EPA 8260D	572627		
92499650005	GW-MN04-DUP-AWI-100720	EPA 8260D	572627		
92499650006	TRIP BLANK	EPA 8260D	572622		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical

Client Name:

Ramboll

WO#: 92499650

PM: NJK

Due Date: 10/15/20

CLIENT: GR-Ramboll

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ noPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used

214
54°CType of Ice: ☒ Wet ☐ Blue ☐ None☐ Samples on ice, cooling process has begun

Cooler Temperature

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 10/8/2004

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Trip Blank present but not listed on COC

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

November 25, 2020

Keith Cole
Ramboll Environ US Corporation
1600 Parkwood Circle
Suite 310
Atlanta, GA 30339

RE: Project: AWI Facility 1690019302
Pace Project No.: 92507313

Dear Keith Cole:

Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nikita Kuruganty
nikita.kuruganty@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Aaron D. Hottenstein, PG, Ramboll Environ US
Corporation
Robert Patchett, Ramboll Environ



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92507313001	MW-06R 20201119 MS/MSD	Water	11/19/20 10:35	11/19/20 16:45
92507313002	TB-01 20201119	Water	11/19/20 10:35	11/19/20 16:45

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SAMPLE ANALYTE COUNT

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507313001	MW-06R 20201119 MS/MSD	EPA 8082A	SEM	8	PASI-C
		EPA 6010D	DRB	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 8270E	PKS	74	PASI-C
		EPA 8260D	PM1	63	PASI-C
92507313002	TB-01 20201119	EPA 8260D	PM1	63	PASI-C

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: MW-06R 20201119 MS/MSD Lab ID: 92507313001 Collected: 11/19/20 10:35 Received: 11/19/20 16:45 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB RVE								
Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	11/20/20 16:43	11/23/20 07:37	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	82	%	10-181	1	11/20/20 16:43	11/23/20 07:37	2051-24-3	
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	ug/L	30.0	1	11/23/20 12:34	11/23/20 18:40	7440-38-2	
Barium	60.7	ug/L	10.0	1	11/23/20 12:34	11/23/20 18:40	7440-39-3	
Cadmium	ND	ug/L	10.0	1	11/23/20 12:34	11/23/20 18:40	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/23/20 12:34	11/23/20 18:40	7440-47-3	
Silver	ND	ug/L	10.0	1	11/23/20 12:34	11/23/20 18:40	7440-22-4	
Lead	ND	ug/L	15.0	1	11/23/20 12:34	11/23/20 18:40	7439-92-1	
Selenium	ND	ug/L	40.0	1	11/23/20 12:34	11/23/20 18:40	7782-49-2	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	ug/L	0.20	1	11/24/20 07:15	11/24/20 11:55	7439-97-6	
8270E RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	83-32-9	R1
Acenaphthylene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	208-96-8	R1
Aniline	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	62-53-3	
Anthracene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	11/23/20 17:28	11/24/20 13:35	65-85-0	M1
Benzyl alcohol	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	111-44-4	R1
2-Chloronaphthalene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	91-58-7	R1
2-Chlorophenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	95-57-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: MW-06R 20201119 MS/MSD		Lab ID: 92507313001	Collected: 11/19/20 10:35	Received: 11/19/20 16:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E RVE		Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte						
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	7005-72-3	
Chrysene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	132-64-9	R1
1,2-Dichlorobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	541-73-1	R1
1,4-Dichlorobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	106-46-7	R1
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	120-83-2	R1
Diethylphthalate	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	534-52-1	M1
2,4-Dinitrophenol	ND	ug/L	50.0	1	11/23/20 17:28	11/24/20 13:35	51-28-5	M1
2,4-Dinitrotoluene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	11/23/20 17:28	11/24/20 13:35	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	206-44-0	
Fluorene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	193-39-5	
Isophorone	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	90-12-0	R1
2-Methylnaphthalene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	91-57-6	R1
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	91-20-3	R1
2-Nitroaniline	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	88-75-5	R1
4-Nitrophenol	ND	ug/L	50.0	1	11/23/20 17:28	11/24/20 13:35	100-02-7	M1
N-Nitrosodimethylamine	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	621-64-7	R1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	108-60-1	R1
Pentachlorophenol	ND	ug/L	20.0	1	11/23/20 17:28	11/24/20 13:35	87-86-5	M1
Phenanthrene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	85-01-8	
Phenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	108-95-2	
Pyrene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	129-00-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: MW-06R 20201119 MS/MSD		Lab ID: 92507313001		Collected: 11/19/20 10:35		Received: 11/19/20 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270E RVE									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	120-82-1	R1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	95-95-4	R1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	11/23/20 17:28	11/24/20 13:35	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	80	%	10-144	1	11/23/20 17:28	11/24/20 13:35	4165-60-0		
2-Fluorobiphenyl (S)	67	%	10-130	1	11/23/20 17:28	11/24/20 13:35	321-60-8		
Terphenyl-d14 (S)	113	%	34-163	1	11/23/20 17:28	11/24/20 13:35	1718-51-0		
Phenol-d6 (S)	34	%	10-130	1	11/23/20 17:28	11/24/20 13:35	13127-88-3		
2-Fluorophenol (S)	21	%	10-130	1	11/23/20 17:28	11/24/20 13:35	367-12-4		
2,4,6-Tribromophenol (S)	35	%	10-144	1	11/23/20 17:28	11/24/20 13:35	118-79-6		
8260D MSV Low Level Landfill									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	1		11/21/20 05:49	67-64-1		
Benzene	ND	ug/L	1.0	1		11/21/20 05:49	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		11/21/20 05:49	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		11/21/20 05:49	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		11/21/20 05:49	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/21/20 05:49	75-25-2	v1	
Bromomethane	ND	ug/L	2.0	1		11/21/20 05:49	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		11/21/20 05:49	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		11/21/20 05:49	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/21/20 05:49	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/21/20 05:49	67-66-3		
Chloromethane	1.6	ug/L	1.0	1		11/21/20 05:49	74-87-3	v2	
2-Chlorotoluene	ND	ug/L	1.0	1		11/21/20 05:49	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		11/21/20 05:49	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/21/20 05:49	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		11/21/20 05:49	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/21/20 05:49	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		11/21/20 05:49	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/21/20 05:49	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/21/20 05:49	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/21/20 05:49	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/21/20 05:49	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/20 05:49	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/20 05:49	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/21/20 05:49	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		11/21/20 05:49	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		11/21/20 05:49	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		11/21/20 05:49	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/20 05:49	10061-01-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: MW-06R 20201119 MS/MSD		Lab ID: 92507313001		Collected: 11/19/20 10:35		Received: 11/19/20 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/20 05:49	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		11/21/20 05:49	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		11/21/20 05:49	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/21/20 05:49	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		11/21/20 05:49	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		11/21/20 05:49	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/21/20 05:49	75-09-2	M1	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/21/20 05:49	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/21/20 05:49	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		11/21/20 05:49	91-20-3		
Styrene	ND	ug/L	1.0	1		11/21/20 05:49	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/20 05:49	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/20 05:49	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/21/20 05:49	127-18-4		
Toluene	ND	ug/L	1.0	1		11/21/20 05:49	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/21/20 05:49	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/21/20 05:49	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/21/20 05:49	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/21/20 05:49	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/20 05:49	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/21/20 05:49	96-18-4	M1	
Vinyl acetate	ND	ug/L	2.0	1		11/21/20 05:49	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		11/21/20 05:49	75-01-4	v2	
Xylene (Total)	ND	ug/L	1.0	1		11/21/20 05:49	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		11/21/20 05:49	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/21/20 05:49	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130	1		11/21/20 05:49	460-00-4		
1,2-Dichloroethane-d4 (S)	119	%	70-130	1		11/21/20 05:49	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		11/21/20 05:49	2037-26-5		

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: TB-01 20201119		Lab ID: 92507313002		Collected: 11/19/20 10:35		Received: 11/19/20 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
Acetone	ND	ug/L	25.0	1		11/20/20 23:49	67-64-1		
Benzene	ND	ug/L	1.0	1		11/20/20 23:49	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		11/20/20 23:49	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		11/20/20 23:49	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		11/20/20 23:49	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/20/20 23:49	75-25-2	v1	
Bromomethane	ND	ug/L	2.0	1		11/20/20 23:49	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/20 23:49	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/20 23:49	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/20/20 23:49	75-00-3		
Chloroform	ND	ug/L	5.0	1		11/20/20 23:49	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/20/20 23:49	74-87-3	v2	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/20 23:49	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/20 23:49	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/20/20 23:49	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		11/20/20 23:49	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/20 23:49	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		11/20/20 23:49	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/20 23:49	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/20 23:49	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/20 23:49	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/20 23:49	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/20 23:49	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/20 23:49	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/20 23:49	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/20 23:49	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		11/20/20 23:49	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/20 23:49	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/20 23:49	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/20 23:49	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	1		11/20/20 23:49	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		11/20/20 23:49	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/20/20 23:49	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		11/20/20 23:49	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/20 23:49	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		11/20/20 23:49	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/20 23:49	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/20 23:49	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		11/20/20 23:49	91-20-3		
Styrene	ND	ug/L	1.0	1		11/20/20 23:49	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/20 23:49	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/20 23:49	79-34-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Sample: TB-01 20201119		Lab ID: 92507313002		Collected: 11/19/20 10:35		Received: 11/19/20 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
	Tetrachloroethene	ND	ug/L	1.0	1		11/20/20 23:49	127-18-4	
	Toluene	ND	ug/L	1.0	1		11/20/20 23:49	108-88-3	
	1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	87-61-6	
	1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/20 23:49	120-82-1	
	1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/20 23:49	71-55-6	
	1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/20 23:49	79-00-5	
	Trichloroethene	ND	ug/L	1.0	1		11/20/20 23:49	79-01-6	
	Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/20 23:49	75-69-4	
	1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/20 23:49	96-18-4	
	Vinyl acetate	ND	ug/L	2.0	1		11/20/20 23:49	108-05-4	
	Vinyl chloride	ND	ug/L	1.0	1		11/20/20 23:49	75-01-4	
	Xylene (Total)	ND	ug/L	1.0	1		11/20/20 23:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/20 23:49	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/20/20 23:49	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130	1		11/20/20 23:49	460-00-4		
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		11/20/20 23:49	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		11/20/20 23:49	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

QC Batch: 582337	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92507313001

METHOD BLANK: 3079660 Matrix: Water
Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	30.0	11/23/20 18:30	
Barium	ug/L	ND	10.0	11/23/20 18:30	
Cadmium	ug/L	ND	10.0	11/23/20 18:30	
Chromium	ug/L	ND	10.0	11/23/20 18:30	
Lead	ug/L	ND	15.0	11/23/20 18:30	
Selenium	ug/L	ND	40.0	11/23/20 18:30	
Silver	ug/L	ND	10.0	11/23/20 18:30	

LABORATORY CONTROL SAMPLE: 3079661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	938	94	80-120	
Barium	ug/L	1000	950	95	80-120	
Cadmium	ug/L	1000	911	91	80-120	
Chromium	ug/L	1000	910	91	80-120	
Lead	ug/L	1000	909	91	80-120	
Selenium	ug/L	1000	913	91	80-120	
Silver	ug/L	1000	914	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079662 3079663

Parameter	Units	92507313001		MSD		MSD		MSD		MSD		Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD		
Arsenic	ug/L	ND	1000	1000	968	955	96	95	75-125	1	20		
Barium	ug/L	60.7	1000	1000	1010	1020	95	96	75-125	2	20		
Cadmium	ug/L	ND	1000	1000	931	908	93	91	75-125	2	20		
Chromium	ug/L	ND	1000	1000	913	921	91	92	75-125	1	20		
Lead	ug/L	ND	1000	1000	956	979	96	98	75-125	2	20		
Selenium	ug/L	ND	1000	1000	915	896	91	90	75-125	2	20		
Silver	ug/L	ND	1000	1000	916	932	92	93	75-125	2	20		

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

QC Batch: 582393

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92507313001

METHOD BLANK: 3079927

Matrix: Water

Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/24/20 11:43	

LABORATORY CONTROL SAMPLE: 3079928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079929 3079930

Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.4	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

QC Batch: 582006	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV Low Level Landfill
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507313002

METHOD BLANK: 3078308 Matrix: Water

Associated Lab Samples: 92507313002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/20 23:13	
1,1-Dichloropropene	ug/L	ND	1.0	11/20/20 23:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/20 23:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/20/20 23:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/20 23:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/20 23:13	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/20 23:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
1,3-Dichloropropane	ug/L	ND	1.0	11/20/20 23:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
2,2-Dichloropropane	ug/L	ND	1.0	11/20/20 23:13	
2-Butanone (MEK)	ug/L	ND	5.0	11/20/20 23:13	
2-Chlorotoluene	ug/L	ND	1.0	11/20/20 23:13	
2-Hexanone	ug/L	ND	5.0	11/20/20 23:13	
4-Chlorotoluene	ug/L	ND	1.0	11/20/20 23:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/20/20 23:13	
Acetone	ug/L	ND	25.0	11/20/20 23:13	
Benzene	ug/L	ND	1.0	11/20/20 23:13	
Bromobenzene	ug/L	ND	1.0	11/20/20 23:13	
Bromochloromethane	ug/L	ND	1.0	11/20/20 23:13	
Bromodichloromethane	ug/L	ND	1.0	11/20/20 23:13	
Bromoform	ug/L	ND	1.0	11/20/20 23:13	v1
Bromomethane	ug/L	ND	2.0	11/20/20 23:13	
Carbon tetrachloride	ug/L	ND	1.0	11/20/20 23:13	
Chlorobenzene	ug/L	ND	1.0	11/20/20 23:13	
Chloroethane	ug/L	ND	1.0	11/20/20 23:13	
Chloroform	ug/L	ND	5.0	11/20/20 23:13	
Chloromethane	ug/L	ND	1.0	11/20/20 23:13	v2
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/20 23:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/20/20 23:13	
Dibromochloromethane	ug/L	ND	1.0	11/20/20 23:13	
Dibromomethane	ug/L	ND	1.0	11/20/20 23:13	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

METHOD BLANK: 3078308

Matrix: Water

Associated Lab Samples: 92507313002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/20/20 23:13	
Diisopropyl ether	ug/L	ND	1.0	11/20/20 23:13	
Ethylbenzene	ug/L	ND	1.0	11/20/20 23:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/20/20 23:13	
m&p-Xylene	ug/L	ND	2.0	11/20/20 23:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/20/20 23:13	
Methylene Chloride	ug/L	ND	5.0	11/20/20 23:13	
Naphthalene	ug/L	ND	1.0	11/20/20 23:13	
o-Xylene	ug/L	ND	1.0	11/20/20 23:13	
p-Isopropyltoluene	ug/L	ND	1.0	11/20/20 23:13	
Styrene	ug/L	ND	1.0	11/20/20 23:13	
Tetrachloroethene	ug/L	ND	1.0	11/20/20 23:13	
Toluene	ug/L	ND	1.0	11/20/20 23:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/20 23:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/20/20 23:13	
Trichloroethene	ug/L	ND	1.0	11/20/20 23:13	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 23:13	
Vinyl acetate	ug/L	ND	2.0	11/20/20 23:13	
Vinyl chloride	ug/L	ND	1.0	11/20/20 23:13	v2
Xylene (Total)	ug/L	ND	1.0	11/20/20 23:13	
1,2-Dichloroethane-d4 (S)	%	115	70-130	11/20/20 23:13	
4-Bromofluorobenzene (S)	%	101	70-130	11/20/20 23:13	
Toluene-d8 (S)	%	99	70-130	11/20/20 23:13	

LABORATORY CONTROL SAMPLE: 3078309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,1-Trichloroethane	ug/L	50	53.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethane	ug/L	50	46.7	93	70-130	
1,1-Dichloroethene	ug/L	50	52.4	105	70-132	
1,1-Dichloropropene	ug/L	50	48.2	96	70-131	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	70-134	
1,2,3-Trichloropropane	ug/L	50	53.1	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.5	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.4	117	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	70-130	
1,2-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dichloroethane	ug/L	50	54.2	108	70-130	
1,2-Dichloropropane	ug/L	50	47.8	96	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,3-Dichloropropane	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

LABORATORY CONTROL SAMPLE: 3078309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
2,2-Dichloropropane	ug/L	50	53.4	107	70-130	
2-Butanone (MEK)	ug/L	100	95.6	96	70-133	
2-Chlorotoluene	ug/L	50	50.5	101	70-130	
2-Hexanone	ug/L	100	103	103	70-130	
4-Chlorotoluene	ug/L	50	49.5	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-130	
Acetone	ug/L	100	107	107	70-144	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	48.9	98	70-130	
Bromochloromethane	ug/L	50	47.7	95	70-130	
Bromodichloromethane	ug/L	50	55.4	111	70-130	
Bromoform	ug/L	50	61.2	122	70-131 v1	
Bromomethane	ug/L	50	46.1	92	30-177	
Carbon tetrachloride	ug/L	50	58.7	117	70-130	
Chlorobenzene	ug/L	50	50.0	100	70-130	
Chloroethane	ug/L	50	49.4	99	46-131	
Chloroform	ug/L	50	51.8	104	70-130	
Chloromethane	ug/L	50	38.5	77	49-130 v3	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.7	109	70-130	
Dibromochloromethane	ug/L	50	57.7	115	70-130	
Dibromomethane	ug/L	50	54.8	110	70-130	
Dichlorodifluoromethane	ug/L	50	49.3	99	52-134	
Diisopropyl ether	ug/L	50	42.6	85	70-131	
Ethylbenzene	ug/L	50	49.9	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	70-131	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	49.4	99	70-130	
Methylene Chloride	ug/L	50	43.3	87	68-130	
Naphthalene	ug/L	50	55.0	110	70-133	
o-Xylene	ug/L	50	50.1	100	70-130	
p-Isopropyltoluene	ug/L	50	50.7	101	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.4	115	70-130	
Trichloroethene	ug/L	50	53.1	106	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	61-130	
Vinyl acetate	ug/L	100	110	110	70-140	
Vinyl chloride	ug/L	50	39.3	79	59-142 v3	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			118	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

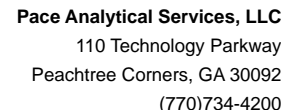
Pace Project No.: 92507313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078310 3078311											
Parameter	Units	92506794007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.9	18.7	100	94	70-135	6	30
1,1,1-Trichloroethane	ug/L	ND	20	20	20.5	19.7	102	98	70-148	4	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.2	15.1	81	75	70-131	8	30
1,1,2-Trichloroethane	ug/L	ND	20	20	18.3	16.1	92	80	70-136	13	30
1,1-Dichloroethane	ug/L	ND	20	20	17.1	16.3	86	82	70-147	5	30
1,1-Dichloroethene	ug/L	ND	20	20	19.6	18.6	98	93	70-158	5	30
1,1-Dichloropropene	ug/L	ND	20	20	17.9	16.9	89	85	70-149	5	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.6	15.9	93	80	68-140	16	30
1,2,3-Trichloropropane	ug/L	ND	20	20	12.5	11.5	62	58	67-137	8	30 M1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.1	16.3	95	81	70-139	16	30
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.4	15.9	102	80	69-136	24	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	16.9	91	84	70-137	8	30
1,2-Dichlorobenzene	ug/L	ND	20	20	18.4	16.7	92	83	70-133	10	30
1,2-Dichloroethane	ug/L	ND	20	20	20.0	19.2	100	96	67-138	4	30
1,2-Dichloropropane	ug/L	ND	20	20	17.3	15.5	87	78	70-138	11	30
1,3-Dichlorobenzene	ug/L	ND	20	20	19.3	16.7	96	84	70-133	14	30
1,3-Dichloropropane	ug/L	ND	20	20	17.6	16.6	88	83	70-136	6	30
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	17.1	91	85	70-133	7	30
2,2-Dichloropropane	ug/L	ND	20	20	20.7	19.3	104	97	52-155	7	30
2-Butanone (MEK)	ug/L	ND	40	40	32.2	30.3	80	76	61-147	6	30
2-Chlorotoluene	ug/L	ND	20	20	19.3	17.2	96	86	70-141	11	30
2-Hexanone	ug/L	ND	40	40	32.9	29.4	82	73	67-139	11	30
4-Chlorotoluene	ug/L	ND	20	20	18.5	16.9	93	85	70-135	9	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	31.4	28.2	78	70	67-136	11	30
Acetone	ug/L	ND	40	40	33.2	30.6	83	77	55-159	8	30
Benzene	ug/L	ND	20	20	17.1	15.4	85	77	67-150	10	30
Bromobenzene	ug/L	ND	20	20	18.2	16.3	91	82	70-134	11	30
Bromochloromethane	ug/L	ND	20	20	17.4	17.2	87	86	70-146	2	30
Bromodichloromethane	ug/L	ND	20	20	19.8	17.9	99	90	70-138	10	30
Bromoform	ug/L	ND	20	20	19.6	18.2	98	91	57-138	8	30 v1
Bromomethane	ug/L	ND	20	20	20.6	21.4	103	107	10-200	4	30 v3
Carbon tetrachloride	ug/L	ND	20	20	25.7	20.3	129	101	70-147	24	30 v1
Chlorobenzene	ug/L	ND	20	20	18.6	17.0	93	85	70-137	9	30
Chloroethane	ug/L	ND	20	20	16.7	17.2	84	86	51-166	3	30
Chloroform	ug/L	ND	20	20	18.3	17.8	91	89	70-144	2	30
Chloromethane	ug/L	ND	20	20	14.1	13.4	71	67	24-161	5	30 v3
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.7	15.6	84	78	67-148	7	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	16.4	93	82	70-142	13	30
Dibromochloromethane	ug/L	ND	20	20	19.4	18.1	97	90	68-138	7	30
Dibromomethane	ug/L	ND	20	20	19.3	18.8	96	94	70-134	3	30
Dichlorodifluoromethane	ug/L	ND	20	20	18.7	18.5	93	92	43-155	1	30
Diisopropyl ether	ug/L	ND	20	20	14.1	13.1	71	66	65-146	7	30
Ethylbenzene	ug/L	ND	20	20	18.4	16.8	92	84	68-143	9	30
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.9	19.5	105	98	62-151	7	30

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REPORT OF LABORATORY ANALYSIS

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Project: AWI Facility 1690019302
Pace Project No.: 92507313

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

QC Batch: 582009	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV Low Level Landfill
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507313001

METHOD BLANK: 3078316 Matrix: Water

Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/20 23:31	
1,1-Dichloropropene	ug/L	ND	1.0	11/20/20 23:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/20 23:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/20/20 23:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/20 23:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/20 23:31	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/20 23:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
1,3-Dichloropropane	ug/L	ND	1.0	11/20/20 23:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
2,2-Dichloropropane	ug/L	ND	1.0	11/20/20 23:31	
2-Butanone (MEK)	ug/L	ND	5.0	11/20/20 23:31	
2-Chlorotoluene	ug/L	ND	1.0	11/20/20 23:31	
2-Hexanone	ug/L	ND	5.0	11/20/20 23:31	
4-Chlorotoluene	ug/L	ND	1.0	11/20/20 23:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/20/20 23:31	
Acetone	ug/L	ND	25.0	11/20/20 23:31	
Benzene	ug/L	ND	1.0	11/20/20 23:31	
Bromobenzene	ug/L	ND	1.0	11/20/20 23:31	
Bromochloromethane	ug/L	ND	1.0	11/20/20 23:31	
Bromodichloromethane	ug/L	ND	1.0	11/20/20 23:31	
Bromoform	ug/L	ND	1.0	11/20/20 23:31	v1
Bromomethane	ug/L	ND	2.0	11/20/20 23:31	
Carbon tetrachloride	ug/L	ND	1.0	11/20/20 23:31	
Chlorobenzene	ug/L	ND	1.0	11/20/20 23:31	
Chloroethane	ug/L	ND	1.0	11/20/20 23:31	
Chloroform	ug/L	ND	5.0	11/20/20 23:31	
Chloromethane	ug/L	ND	1.0	11/20/20 23:31	v2
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/20 23:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/20/20 23:31	
Dibromochloromethane	ug/L	ND	1.0	11/20/20 23:31	
Dibromomethane	ug/L	ND	1.0	11/20/20 23:31	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

METHOD BLANK: 3078316

Matrix: Water

Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/20/20 23:31	
Diisopropyl ether	ug/L	ND	1.0	11/20/20 23:31	
Ethylbenzene	ug/L	ND	1.0	11/20/20 23:31	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/20/20 23:31	
m&p-Xylene	ug/L	ND	2.0	11/20/20 23:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/20/20 23:31	
Methylene Chloride	ug/L	ND	5.0	11/20/20 23:31	
Naphthalene	ug/L	ND	1.0	11/20/20 23:31	
o-Xylene	ug/L	ND	1.0	11/20/20 23:31	
p-Isopropyltoluene	ug/L	ND	1.0	11/20/20 23:31	
Styrene	ug/L	ND	1.0	11/20/20 23:31	
Tetrachloroethene	ug/L	ND	1.0	11/20/20 23:31	
Toluene	ug/L	ND	1.0	11/20/20 23:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/20 23:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/20/20 23:31	
Trichloroethene	ug/L	ND	1.0	11/20/20 23:31	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/20 23:31	
Vinyl acetate	ug/L	ND	2.0	11/20/20 23:31	
Vinyl chloride	ug/L	ND	1.0	11/20/20 23:31	v2
Xylene (Total)	ug/L	ND	1.0	11/20/20 23:31	
1,2-Dichloroethane-d4 (S)	%	115	70-130	11/20/20 23:31	
4-Bromofluorobenzene (S)	%	101	70-130	11/20/20 23:31	
Toluene-d8 (S)	%	100	70-130	11/20/20 23:31	

LABORATORY CONTROL SAMPLE: 3078317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.4	113	70-130	
1,1,1-Trichloroethane	ug/L	50	52.8	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	47.1	94	70-130	
1,1-Dichloroethene	ug/L	50	51.0	102	70-132	
1,1-Dichloropropene	ug/L	50	47.8	96	70-131	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	70-134	
1,2,3-Trichloropropane	ug/L	50	53.0	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.0	114	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	52.4	105	70-130	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,3-Dichloropropane	ug/L	50	50.3	101	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

LABORATORY CONTROL SAMPLE: 3078317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.3	99	70-130	
2,2-Dichloropropane	ug/L	50	52.6	105	70-130	
2-Butanone (MEK)	ug/L	100	95.3	95	70-133	
2-Chlorotoluene	ug/L	50	50.6	101	70-130	
2-Hexanone	ug/L	100	99.3	99	70-130	
4-Chlorotoluene	ug/L	50	49.1	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.4	98	70-130	
Acetone	ug/L	100	105	105	70-144	
Benzene	ug/L	50	46.7	93	70-130	
Bromobenzene	ug/L	50	48.7	97	70-130	
Bromochloromethane	ug/L	50	48.4	97	70-130	
Bromodichloromethane	ug/L	50	54.6	109	70-130	
Bromoform	ug/L	50	59.7	119	70-131 v1	
Bromomethane	ug/L	50	49.6	99	30-177	
Carbon tetrachloride	ug/L	50	56.7	113	70-130	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	47.4	95	46-131	
Chloroform	ug/L	50	50.8	102	70-130	
Chloromethane	ug/L	50	39.9	80	49-130 v3	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.2	110	70-130	
Dibromochloromethane	ug/L	50	57.1	114	70-130	
Dibromomethane	ug/L	50	56.8	114	70-130	
Dichlorodifluoromethane	ug/L	50	48.7	97	52-134	
Diisopropyl ether	ug/L	50	41.6	83	70-131	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	55.5	111	70-131	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylene Chloride	ug/L	50	41.2	82	68-130	
Naphthalene	ug/L	50	55.2	110	70-133	
o-Xylene	ug/L	50	49.5	99	70-130	
p-Isopropyltoluene	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	48.0	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.8	114	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	50.2	100	61-130	
Vinyl acetate	ug/L	100	108	108	70-140	
Vinyl chloride	ug/L	50	39.5	79	59-142 v3	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			118	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078318 3078319											
Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.0	18.7	100	94	70-135	7	30
1,1,1-Trichloroethane	ug/L	ND	20	20	22.0	19.8	110	99	70-148	11	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.0	15.1	80	75	70-131	6	30
1,1,2-Trichloroethane	ug/L	ND	20	20	17.9	16.4	90	82	70-136	9	30
1,1-Dichloroethane	ug/L	ND	20	20	18.4	16.6	92	83	70-147	10	30
1,1-Dichloroethene	ug/L	ND	20	20	21.3	19.1	106	96	70-158	11	30
1,1-Dichloropropene	ug/L	ND	20	20	19.0	17.1	95	85	70-149	11	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.9	17.2	90	86	68-140	4	30
1,2,3-Trichloropropane	ug/L	ND	20	20	13.5	13.2	67	66	67-137	2	30 M1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	16.3	91	82	70-139	11	30
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	17.8	16.7	89	83	69-136	6	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	17.2	96	86	70-137	11	30
1,2-Dichlorobenzene	ug/L	ND	20	20	18.1	17.3	91	87	70-133	4	30
1,2-Dichloroethane	ug/L	ND	20	20	21.2	18.9	106	95	67-138	11	30
1,2-Dichloropropane	ug/L	ND	20	20	16.9	16.3	84	81	70-138	3	30
1,3-Dichlorobenzene	ug/L	ND	20	20	19.2	17.9	96	90	70-133	7	30
1,3-Dichloropropane	ug/L	ND	20	20	18.2	17.0	91	85	70-136	7	30
1,4-Dichlorobenzene	ug/L	ND	20	20	17.4	16.7	87	84	70-133	4	30
2,2-Dichloropropane	ug/L	ND	20	20	22.4	19.8	112	99	52-155	12	30
2-Butanone (MEK)	ug/L	ND	40	40	32.9	29.5	82	74	61-147	11	30
2-Chlorotoluene	ug/L	ND	20	20	19.2	17.7	96	88	70-141	8	30
2-Hexanone	ug/L	ND	40	40	31.7	28.8	79	72	67-139	10	30
4-Chlorotoluene	ug/L	ND	20	20	18.5	17.4	93	87	70-135	7	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	30.8	28.4	77	71	67-136	8	30
Acetone	ug/L	ND	40	40	34.8	32.2	87	80	55-159	8	30
Benzene	ug/L	ND	20	20	17.4	15.7	87	79	67-150	10	30
Bromobenzene	ug/L	ND	20	20	17.9	16.7	89	83	70-134	7	30
Bromochloromethane	ug/L	ND	20	20	18.7	17.7	93	88	70-146	5	30
Bromodichloromethane	ug/L	ND	20	20	19.8	18.5	99	93	70-138	7	30
Bromoform	ug/L	ND	20	20	20.0	18.0	100	90	57-138	10	30 v1
Bromomethane	ug/L	ND	20	20	21.8	21.2	109	106	10-200	3	30 v3
Carbon tetrachloride	ug/L	ND	20	20	22.9	20.3	115	102	70-147	12	30 v1
Chlorobenzene	ug/L	ND	20	20	19.2	17.2	96	86	70-137	11	30
Chloroethane	ug/L	ND	20	20	17.4	16.8	87	84	51-166	4	30
Chloroform	ug/L	ND	20	20	21.1	18.8	103	91	70-144	12	30
Chloromethane	ug/L	1.6	20	20	15.1	14.3	67	64	24-161	5	30 v3
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.9	16.2	89	81	67-148	10	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	17.2	92	86	70-142	7	30
Dibromochloromethane	ug/L	ND	20	20	20.4	18.5	102	92	68-138	10	30
Dibromomethane	ug/L	ND	20	20	21.1	18.2	106	91	70-134	15	30
Dichlorodifluoromethane	ug/L	ND	20	20	20.7	18.7	104	93	43-155	10	30
Diisopropyl ether	ug/L	ND	20	20	14.6	13.0	73	65	65-146	11	30
Ethylbenzene	ug/L	ND	20	20	19.2	17.8	96	89	68-143	8	30
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.8	20.4	99	102	62-151	3	30

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3078318 3078319											
Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	39.6	36.6	99	91	53-157	8	30
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	17.1	90	82	59-156	9	30
Methylene Chloride	ug/L	ND	20	20	14.0	12.0	70	60	64-148	16	30 M1
Naphthalene	ug/L	ND	20	20	17.2	16.1	86	81	57-150	7	30
o-Xylene	ug/L	ND	20	20	19.2	17.8	96	89	68-143	8	30
p-Isopropyltoluene	ug/L	ND	20	20	18.5	17.7	93	88	70-141	5	30
Styrene	ug/L	ND	20	20	18.9	17.8	95	89	70-136	6	30
Tetrachloroethene	ug/L	ND	20	20	19.3	16.4	96	82	70-139	16	30
Toluene	ug/L	ND	20	20	18.0	17.0	90	85	47-157	6	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.6	17.1	93	86	70-149	8	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	18.2	100	91	70-138	9	30
Trichloroethene	ug/L	ND	20	20	19.5	18.4	98	92	70-149	6	30
Trichlorofluoromethane	ug/L	ND	20	20	21.5	19.9	107	99	61-154	8	30
Vinyl acetate	ug/L	ND	40	40	37.3	33.2	93	83	48-156	12	30
Vinyl chloride	ug/L	ND	20	20	15.2	14.0	76	70	55-172	8	30 v3
Xylene (Total)	ug/L	ND	60	60	58.8	54.4	98	91	66-145	8	30
1,2-Dichloroethane-d4 (S)	%						122	120	70-130		
4-Bromofluorobenzene (S)	%						108	106	70-130		
Toluene-d8 (S)	%						98	97	70-130		

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

QC Batch: 581970	Analysis Method: EPA 8082A
QC Batch Method: EPA 3510C	Analysis Description: 8082 GCS PCB
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507313001

METHOD BLANK: 3077995 Matrix: Water
Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	11/23/20 08:22	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	11/23/20 08:22	
Decachlorobiphenyl (S)	%	92	10-181	11/23/20 08:22	

LABORATORY CONTROL SAMPLE: 3077996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.2	84	41-137	
PCB-1260 (Aroclor 1260)	ug/L	5	5.7	114	42-156	
Decachlorobiphenyl (S)	%			90	10-181	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3077997 3077998

Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	5	5	3.5	3.2	71	64	22-145	10	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	5	5	5.2	4.7	103	94	10-167	10	30	
Decachlorobiphenyl (S)	%						81	76	10-181			

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507313

QC Batch: 582391	Analysis Method: EPA 8270E
QC Batch Method: EPA 3510C	Analysis Description: 8270E Water MSSV RVE
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507313001

METHOD BLANK: 3079917 Matrix: Water

Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	11/24/20 12:08	
1,2-Dichlorobenzene	ug/L	ND	10.0	11/24/20 12:08	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/24/20 12:08	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/24/20 12:08	
1-Methylnaphthalene	ug/L	ND	10.0	11/24/20 12:08	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	11/24/20 12:08	
2,4,5-Trichlorophenol	ug/L	ND	10.0	11/24/20 12:08	
2,4,6-Trichlorophenol	ug/L	ND	10.0	11/24/20 12:08	
2,4-Dichlorophenol	ug/L	ND	10.0	11/24/20 12:08	
2,4-Dimethylphenol	ug/L	ND	10.0	11/24/20 12:08	
2,4-Dinitrophenol	ug/L	ND	50.0	11/24/20 12:08	
2,4-Dinitrotoluene	ug/L	ND	10.0	11/24/20 12:08	
2,6-Dinitrotoluene	ug/L	ND	10.0	11/24/20 12:08	
2-Chloronaphthalene	ug/L	ND	10.0	11/24/20 12:08	
2-Chlorophenol	ug/L	ND	10.0	11/24/20 12:08	
2-Methylnaphthalene	ug/L	ND	10.0	11/24/20 12:08	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/24/20 12:08	
2-Nitroaniline	ug/L	ND	20.0	11/24/20 12:08	
2-Nitrophenol	ug/L	ND	10.0	11/24/20 12:08	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/24/20 12:08	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	11/24/20 12:08	
3-Nitroaniline	ug/L	ND	20.0	11/24/20 12:08	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	11/24/20 12:08	
4-Bromophenylphenyl ether	ug/L	ND	10.0	11/24/20 12:08	
4-Chloro-3-methylphenol	ug/L	ND	10.0	11/24/20 12:08	
4-Chloroaniline	ug/L	ND	20.0	11/24/20 12:08	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	11/24/20 12:08	
4-Nitroaniline	ug/L	ND	20.0	11/24/20 12:08	
4-Nitrophenol	ug/L	ND	50.0	11/24/20 12:08	
Acenaphthene	ug/L	ND	10.0	11/24/20 12:08	
Acenaphthylene	ug/L	ND	10.0	11/24/20 12:08	
Aniline	ug/L	ND	10.0	11/24/20 12:08	
Anthracene	ug/L	ND	10.0	11/24/20 12:08	
Benzo(a)anthracene	ug/L	ND	10.0	11/24/20 12:08	
Benzo(a)pyrene	ug/L	ND	10.0	11/24/20 12:08	
Benzo(b)fluoranthene	ug/L	ND	10.0	11/24/20 12:08	
Benzo(g,h,i)perylene	ug/L	ND	10.0	11/24/20 12:08	
Benzo(k)fluoranthene	ug/L	ND	10.0	11/24/20 12:08	
Benzoic Acid	ug/L	ND	50.0	11/24/20 12:08	
Benzyl alcohol	ug/L	ND	20.0	11/24/20 12:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

METHOD BLANK: 3079917

Matrix: Water

Associated Lab Samples: 92507313001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	11/24/20 12:08	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	11/24/20 12:08	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	11/24/20 12:08	
Butylbenzylphthalate	ug/L	ND	10.0	11/24/20 12:08	
Chrysene	ug/L	ND	10.0	11/24/20 12:08	
Di-n-butylphthalate	ug/L	ND	10.0	11/24/20 12:08	
Di-n-octylphthalate	ug/L	ND	10.0	11/24/20 12:08	
Dibenz(a,h)anthracene	ug/L	ND	10.0	11/24/20 12:08	
Dibenzofuran	ug/L	ND	10.0	11/24/20 12:08	
Diethylphthalate	ug/L	ND	10.0	11/24/20 12:08	
Dimethylphthalate	ug/L	ND	10.0	11/24/20 12:08	
Fluoranthene	ug/L	ND	10.0	11/24/20 12:08	
Fluorene	ug/L	ND	10.0	11/24/20 12:08	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	11/24/20 12:08	
Hexachlorobenzene	ug/L	ND	10.0	11/24/20 12:08	
Hexachlorocyclopentadiene	ug/L	ND	10.0	11/24/20 12:08	
Hexachloroethane	ug/L	ND	10.0	11/24/20 12:08	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	11/24/20 12:08	
Isophorone	ug/L	ND	10.0	11/24/20 12:08	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	11/24/20 12:08	
N-Nitrosodimethylamine	ug/L	ND	10.0	11/24/20 12:08	
N-Nitrosodiphenylamine	ug/L	ND	10.0	11/24/20 12:08	
Naphthalene	ug/L	ND	10.0	11/24/20 12:08	
Nitrobenzene	ug/L	ND	10.0	11/24/20 12:08	
Pentachlorophenol	ug/L	ND	20.0	11/24/20 12:08	
Phenanthrene	ug/L	ND	10.0	11/24/20 12:08	
Phenol	ug/L	ND	10.0	11/24/20 12:08	
Pyrene	ug/L	ND	10.0	11/24/20 12:08	
2,4,6-Tribromophenol (S)	%	16	10-144	11/24/20 12:08	
2-Fluorobiphenyl (S)	%	96	10-130	11/24/20 12:08	
2-Fluorophenol (S)	%	9	10-130	11/24/20 12:08	S0
Nitrobenzene-d5 (S)	%	118	10-144	11/24/20 12:08	
Phenol-d6 (S)	%	35	10-130	11/24/20 12:08	
Terphenyl-d14 (S)	%	149	34-163	11/24/20 12:08	

LABORATORY CONTROL SAMPLE: 3079918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	33.5	67	18-130	
1,2-Dichlorobenzene	ug/L	50	34.1	68	20-130	
1,3-Dichlorobenzene	ug/L	50	31.7	63	18-130	
1,4-Dichlorobenzene	ug/L	50	33.9	68	18-130	
1-Methylnaphthalene	ug/L	50	38.7	77	29-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	42.0	84	28-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

LABORATORY CONTROL SAMPLE: 3079918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	53.0	106	35-130	
2,4,6-Trichlorophenol	ug/L	50	50.9	102	31-130	
2,4-Dichlorophenol	ug/L	50	50.9	102	35-130	
2,4-Dimethylphenol	ug/L	50	51.5	103	34-130	
2,4-Dinitrophenol	ug/L	250	288	115	10-153	
2,4-Dinitrotoluene	ug/L	50	60.9	122	37-136	
2,6-Dinitrotoluene	ug/L	50	54.6	109	33-136	
2-Chloronaphthalene	ug/L	50	39.6	79	26-130	
2-Chlorophenol	ug/L	50	47.3	95	37-130	
2-Methylnaphthalene	ug/L	50	38.8	78	29-130	
2-Methylphenol(o-Cresol)	ug/L	50	46.2	92	35-130	
2-Nitroaniline	ug/L	100	107	107	37-130	
2-Nitrophenol	ug/L	50	52.2	104	32-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	44.7	89	34-130	
3,3'-Dichlorobenzidine	ug/L	100	131	131	34-136	
3-Nitroaniline	ug/L	100	109	109	37-138	
4,6-Dinitro-2-methylphenol	ug/L	100	125	125	21-157	
4-Bromophenylphenyl ether	ug/L	50	47.2	94	38-130	
4-Chloro-3-methylphenol	ug/L	100	101	101	37-130	
4-Chloroaniline	ug/L	100	96.2	96	38-130	
4-Chlorophenylphenyl ether	ug/L	50	42.8	86	33-130	
4-Nitroaniline	ug/L	100	122	122	42-137	
4-Nitrophenol	ug/L	250	194	78	10-130	
Acenaphthene	ug/L	50	40.5	81	33-130	
Acenaphthylene	ug/L	50	43.7	87	35-130	
Aniline	ug/L	50	39.7	79	22-130	
Anthracene	ug/L	50	50.1	100	48-130	
Benzo(a)anthracene	ug/L	50	60.9	122	48-137	
Benzo(a)pyrene	ug/L	50	64.0	128	49-138	
Benzo(b)fluoranthene	ug/L	50	64.3	129	52-138	
Benzo(g,h,i)perylene	ug/L	50	62.4	125	48-140	
Benzo(k)fluoranthene	ug/L	50	65.3	131	48-139	
Benzoic Acid	ug/L	250	120	48	10-130	
Benzyl alcohol	ug/L	100	97.7	98	35-130	
bis(2-Chloroethoxy)methane	ug/L	50	48.9	98	34-130	
bis(2-Chloroethyl) ether	ug/L	50	53.5	107	36-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	70.3	141	32-165	
Butylbenzylphthalate	ug/L	50	66.6	133	34-161	
Chrysene	ug/L	50	60.9	122	47-131	
Di-n-butylphthalate	ug/L	50	68.5	137	39-144	
Di-n-octylphthalate	ug/L	50	66.8	134	30-170	
Dibenz(a,h)anthracene	ug/L	50	64.7	129	49-138	
Dibenzofuran	ug/L	50	44.0	88	33-130	
Diethylphthalate	ug/L	50	56.8	114	38-131	
Dimethylphthalate	ug/L	50	52.1	104	37-130	
Fluoranthene	ug/L	50	62.7	125	46-137	
Fluorene	ug/L	50	44.0	88	37-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

LABORATORY CONTROL SAMPLE: 3079918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	29.9	60	11-130	
Hexachlorobenzene	ug/L	50	48.6	97	38-130	
Hexachlorocyclopentadiene	ug/L	50	29.1	58	10-130	
Hexachloroethane	ug/L	50	29.4	59	14-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	65.0	130	41-130	
Isophorone	ug/L	50	49.3	99	33-130	
N-Nitroso-di-n-propylamine	ug/L	50	50.4	101	36-130	
N-Nitrosodimethylamine	ug/L	50	41.1	82	34-130	
N-Nitrosodiphenylamine	ug/L	50	54.3	109	37-130	
Naphthalene	ug/L	50	39.1	78	30-130	
Nitrobenzene	ug/L	50	52.4	105	36-130	
Pentachlorophenol	ug/L	100	124	124	23-149	
Phenanthrene	ug/L	50	52.9	106	44-130	
Phenol	ug/L	50	29.9	60	18-130	
Pyrene	ug/L	50	59.0	118	47-134	
2,4,6-Tribromophenol (S)	%			130	10-144	
2-Fluorobiphenyl (S)	%			85	10-130	
2-Fluorophenol (S)	%			75	10-130	
Nitrobenzene-d5 (S)	%			106	10-144	
Phenol-d6 (S)	%			62	10-130	
Terphenyl-d14 (S)	%			134	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079919 3079920

Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	55.8	28.2	56	28	10-130	66	30	R1
1,2-Dichlorobenzene	ug/L	ND	100	100	56.1	25.3	56	25	10-130	76	30	R1
1,3-Dichlorobenzene	ug/L	ND	100	100	52.8	21.9	53	22	10-130	83	30	R1
1,4-Dichlorobenzene	ug/L	ND	100	100	55.5	23.9	56	24	10-130	79	30	R1
1-Methylnaphthalene	ug/L	ND	100	100	64.0	37.4	64	37	10-130	52	30	R1
2,2'-Oxybis(1-chloropropane)	ug/L	ND	100	100	70.2	48.4	70	48	12-142	37	30	R1
2,4,5-Trichlorophenol	ug/L	ND	100	100	26.4	62.5	26	63	10-143	81	30	R1
2,4,6-Trichlorophenol	ug/L	ND	100	100	12.3J	56.0	12	56	10-147		30	
2,4-Dichlorophenol	ug/L	ND	100	100	42.7	59.8	43	60	10-138	33	30	R1
2,4-Dimethylphenol	ug/L	ND	100	100	83.5	65.8	83	66	25-130	24	30	
2,4-Dinitrophenol	ug/L	ND	500	500	ND	ND	0	10	10-165		30	M1
2,4-Dinitrotoluene	ug/L	ND	100	100	76.7	83.3	77	83	29-148	8	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	80.3	67.3	80	67	26-146	18	30	
2-Chloronaphthalene	ug/L	ND	100	100	64.6	39.3	65	39	11-130	49	30	R1
2-Chlorophenol	ug/L	ND	100	100	45.6	58.2	46	58	10-133	24	30	
2-Methylnaphthalene	ug/L	ND	100	100	62.8	37.6	63	38	13-130	50	30	R1
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	73.9	57.7	74	58	20-130	25	30	
2-Nitroaniline	ug/L	ND	200	200	157	128	78	64	24-136	20	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079919 3079920												
Parameter	Units	92507313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Nitrophenol	ug/L	ND	100	100	45.3	63.7	45	64	10-153	34	30	R1
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	69.4	53.7	69	54	16-130	25	30	
3,3'-Dichlorobenzidine	ug/L	ND	200	200	159	206	80	103	10-153	26	30	
3-Nitroaniline	ug/L	ND	200	200	157	138	78	69	22-151	13	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	13.7J	110	7	55	10-180		30	M1
4-Bromophenylphenyl ether	ug/L	ND	100	100	71.7	57.3	72	57	25-130	22	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	149	121	75	61	25-133	21	30	
4-Chloroaniline	ug/L	ND	200	200	159	123	79	62	14-132	25	30	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	67.2	51.0	67	51	19-130	27	30	
4-Nitroaniline	ug/L	ND	200	200	156	187	78	93	29-150	18	30	
4-Nitrophenol	ug/L	ND	500	500	ND	128	0	26	10-130		30	M1
Acenaphthene	ug/L	ND	100	100	65.2	43.6	65	44	16-130	40	30	R1
Acenaphthylene	ug/L	ND	100	100	70.9	47.9	71	48	15-137	39	30	R1
Aniline	ug/L	ND	100	100	67.6	50.3	68	50	10-130	29	30	
Anthracene	ug/L	ND	100	100	70.6	64.7	71	65	37-136	9	30	
Benzo(a)anthracene	ug/L	ND	100	100	80.8	101	81	101	40-145	23	30	
Benzo(a)pyrene	ug/L	ND	100	100	81.0	104	81	104	41-146	24	30	
Benzo(b)fluoranthene	ug/L	ND	100	100	79.5	105	80	105	39-151	28	30	
Benzo(g,h,i)perylene	ug/L	ND	100	100	82.0	104	82	104	40-147	24	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	85.2	107	85	107	40-146	23	30	
Benzoic Acid	ug/L	ND	500	500	ND	ND	0	0	10-130		30	M1
Benzyl alcohol	ug/L	ND	200	200	162	119	81	60	25-130	30	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	79.8	60.2	80	60	23-130	28	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	94.9	65.2	95	65	25-130	37	30	R1
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	78.9	107	79	107	28-166	30	30	
Butylbenzylphthalate	ug/L	ND	100	100	77.9	105	78	105	33-165	29	30	
Chrysene	ug/L	ND	100	100	81.9	101	82	101	38-141	21	30	
Di-n-butylphthalate	ug/L	ND	100	100	78.6	101	79	101	32-153	25	30	
Di-n-octylphthalate	ug/L	ND	100	100	74.6	101	75	101	30-175	30	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	82.4	107	82	107	39-148	26	30	
Dibenzofuran	ug/L	ND	100	100	70.0	50.8	70	51	20-130	32	30	R1
Diethylphthalate	ug/L	ND	100	100	76.5	71.1	76	71	28-142	7	30	
Dimethylphthalate	ug/L	ND	100	100	74.2	62.1	74	62	26-136	18	30	
Fluoranthene	ug/L	ND	100	100	82.7	100	83	100	39-143	19	30	
Fluorene	ug/L	ND	100	100	69.3	52.4	69	52	24-132	28	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	51.7	18.8J	52	19	10-130		30	
Hexachlorobenzene	ug/L	ND	100	100	74.2	64.9	74	65	29-130	13	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	47.4	19.8J	47	20	10-130		30	
Hexachloroethane	ug/L	ND	100	100	53.9	17.3J	54	17	10-130		30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	83.0	107	83	107	39-148	26	30	
Isophorone	ug/L	ND	100	100	79.7	60.0	80	60	23-130	28	30	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	82.3	59.1	82	59	25-130	33	30	R1
N-Nitrosodimethylamine	ug/L	ND	100	100	60.9	45.3	61	45	22-130	29	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	77.6	65.4	78	65	26-134	17	30	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079919 3079920												
Parameter	Units	92507313001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	
			Spike Conc.	Spike Conc.							RPD	Qual
Naphthalene	ug/L	ND	100	100	65.1	40.7	65	41	14-130	46	30	R1
Nitrobenzene	ug/L	ND	100	100	86.6	64.0	87	64	25-130	30	30	
Pentachlorophenol	ug/L	ND	200	200	18.8J	145	9	72	10-175		30	M1
Phenanthrene	ug/L	ND	100	100	77.2	69.7	77	70	36-133	10	30	
Phenol	ug/L	ND	100	100	29.9	36.9	30	37	10-130	21	30	
Pyrene	ug/L	ND	100	100	80.2	95.7	80	96	40-143	18	30	
2,4,6-Tribromophenol (S)	%						29	73	10-144			
2-Fluorobiphenyl (S)	%						67	44	10-130			
2-Fluorophenol (S)	%						17	44	10-130			
Nitrobenzene-d5 (S)	%						87	66	10-144			
Phenol-d6 (S)	%						37	39	10-130			
Terphenyl-d14 (S)	%						84	105	34-163			

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QUALIFIERS

Project: AWI Facility 1690019302

Pace Project No.: 92507313

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
√1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
√2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
√3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWI Facility 1690019302

Pace Project No.: 92507313

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507313001	MW-06R 20201119 MS/MSD	EPA 3510C	581970	EPA 8082A	582220
92507313001	MW-06R 20201119 MS/MSD	EPA 3010A	582337	EPA 6010D	582406
92507313001	MW-06R 20201119 MS/MSD	EPA 7470A	582393	EPA 7470A	582560
92507313001	MW-06R 20201119 MS/MSD	EPA 3510C	582391	EPA 8270E	582646
92507313001	MW-06R 20201119 MS/MSD	EPA 8260D	582009		
92507313002	TB-01 20201119	EPA 8260D	582006		

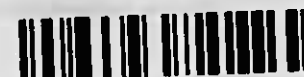
REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request D
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

W0#: 92507313



92507313

Section A

Required Client Information:

Company: Ramboll Environ US Corporation
Address: 1600 Parkwood Circle
Atlanta, GA 30339
Email: ahottenstein@ramboll.com
Phone: 678-388-1656
Requested Due Date: Standard

Section B

Required Project Information:

Report To: Aaron Hottenstein
Copy To:
Purchase Order #:
Project Name: AWI facility- proj# 1690019302
Project #: 1690019302

Section C

Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nikita.kuruganty@pacelabs.com,
Pace Profile #: 12686

Regulatory Agency

State / Location

QA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										ANALYZES TEST Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	8260 Full List	8270 SVOC		8082 PCB	RCRA Metals	400 2000-6005	5000-6000-8000 PCB	RCRA Metals																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level IV Data Package	Ann D	11-19-20	16:45	K. W. W. / Pace	11/19/20	16:45	

SAMPLER NAME AND SIGNATURE		TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Aaron D. Hottenstein						
SIGNATURE of SAMPLER: [Signature]						
DATE Signed: 11-19-2020						

	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition
Upon Receipt

Client Name:

Ramboll

Project #:

WO# : 92507313

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client
☐ Commercial ☐ Pace ☐ Other: _____

PM: NJK

Due Date: 11/30/20

CLIENT: GA-Ramboll

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: *11/19/20*
CS

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other

Biological Tissue Frozen?

☐ Yes ☒ No ☐ N/A

Thermometer:

☒ IR Gun ID: *230*

Type of Ice:

☐ Wet ☐ Blue ☐ None

Cooler Temp: *5.5*

Correction Factor:

Add/Subtract (°C) *0*

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *5.5*

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.

-Includes Date/Time/ID/Analysis Matrix: *W*

Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Lot # 101920-30AB

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot # of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

November 30, 2020

Keith Cole
Ramboll Environ US Corporation
1600 Parkwood Circle
Suite 310
Atlanta, GA 30339

RE: Project: AWI Facility 1690019302
Pace Project No.: 92507319

Dear Keith Cole:

Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nikita Kuruganty
nikita.kuruganty@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Aaron D. Hottenstein, PG, Ramboll Environ US
Corporation
Robert Patchett, Ramboll Environ



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92507319001	WC-01 20201119	Solid	11/19/20 12:00	11/19/20 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92507319001	WC-01 20201119	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DRB, KH	7	PASI-GA
		EPA 7471B	VB	1	PASI-GA
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Sample: WC-01 20201119 **Lab ID: 92507319001** Collected: 11/19/20 12:00 Received: 11/19/20 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	53469-21-9	
PCB-1248 (Aroclor 1248)	61.5	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.1	1	11/24/20 15:42	11/25/20 09:08	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	66	%	10-160	1	11/24/20 15:42	11/25/20 09:08	2051-24-3	
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/kg	3.2	1	11/24/20 11:18	11/24/20 19:13	7440-38-2	
Barium	2.6	mg/kg	1.1	1	11/24/20 11:18	11/24/20 19:13	7440-39-3	
Cadmium	ND	mg/kg	1.1	1	11/24/20 11:18	11/24/20 19:13	7440-43-9	
Chromium	3.5	mg/kg	1.1	1	11/24/20 11:18	11/24/20 19:13	7440-47-3	
Lead	ND	mg/kg	26.9	10	11/24/20 11:18	11/24/20 19:19	7439-92-1	D3
Selenium	ND	mg/kg	4.3	1	11/24/20 11:18	11/24/20 19:13	7782-49-2	
Silver	1.3	mg/kg	1.1	1	11/24/20 11:18	11/30/20 16:17	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/kg	0.26	1	11/24/20 12:30	11/24/20 15:44	7439-97-6	
8270E MSSV Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	83-32-9	
Acenaphthylene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	208-96-8	
Aniline	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	62-53-3	
Anthracene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	207-08-9	
Benzoic Acid	ND	ug/kg	1920	1	11/24/20 12:05	11/25/20 01:26	65-85-0	
Benzyl alcohol	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	101-55-3	
Butylbenzylphthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	59-50-7	
4-Chloroaniline	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	111-44-4	
2-Chloronaphthalene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	91-58-7	
2-Chlorophenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	95-57-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Sample: WC-01 20201119 **Lab ID: 92507319001** Collected: 11/19/20 12:00 Received: 11/19/20 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave		Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Charlotte						
4-Chlorophenylphenyl ether	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	7005-72-3	
Chrysene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	53-70-3	
Dibenzofuran	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	120-83-2	
Diethylphthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	105-67-9	
Dimethylphthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	131-11-3	
Di-n-butylphthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1920	1	11/24/20 12:05	11/25/20 01:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	606-20-2	
Di-n-octylphthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	117-81-7	
Fluoranthene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	206-44-0	
Fluorene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	87-68-3	
Hexachlorobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	77-47-4	v2
Hexachloroethane	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	193-39-5	
Isophorone	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	78-59-1	
1-Methylnaphthalene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	90-12-0	
2-Methylnaphthalene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	15831-10-4	
Naphthalene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	91-20-3	
2-Nitroaniline	ND	ug/kg	1920	1	11/24/20 12:05	11/25/20 01:26	88-74-4	
3-Nitroaniline	ND	ug/kg	1920	1	11/24/20 12:05	11/25/20 01:26	99-09-2	IL
4-Nitroaniline	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	100-01-6	
Nitrobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	98-95-3	
2-Nitrophenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	88-75-5	
4-Nitrophenol	ND	ug/kg	1920	1	11/24/20 12:05	11/25/20 01:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	108-60-1	
Pentachlorophenol	ND	ug/kg	767	1	11/24/20 12:05	11/25/20 01:26	87-86-5	
Phenanthrene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	85-01-8	
Phenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	108-95-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Sample: WC-01 20201119 **Lab ID: 92507319001** Collected: 11/19/20 12:00 Received: 11/19/20 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Pyrene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	129-00-0	
Pyridine	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	384	1	11/24/20 12:05	11/25/20 01:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%	21-130	1	11/24/20 12:05	11/25/20 01:26	4165-60-0	
2-Fluorobiphenyl (S)	46	%	19-130	1	11/24/20 12:05	11/25/20 01:26	321-60-8	
Terphenyl-d14 (S)	43	%	15-130	1	11/24/20 12:05	11/25/20 01:26	1718-51-0	
Phenol-d6 (S)	59	%	18-130	1	11/24/20 12:05	11/25/20 01:26	13127-88-3	
2-Fluorophenol (S)	58	%	18-130	1	11/24/20 12:05	11/25/20 01:26	367-12-4	
2,4,6-Tribromophenol (S)	67	%	18-130	1	11/24/20 12:05	11/25/20 01:26	118-79-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/kg	109	1	11/20/20 15:30	11/20/20 20:33	67-64-1	
Benzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	74-97-5	IK
Bromodichloromethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	75-27-4	
Bromoform	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	75-25-2	
Bromomethane	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	109	1	11/20/20 15:30	11/20/20 20:33	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	98-06-6	L2,v2
Carbon tetrachloride	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	108-90-7	
Chloroethane	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	75-00-3	
Chloroform	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	67-66-3	
Chloromethane	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	74-87-3	v2
2-Chlorotoluene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Sample: WC-01 20201119 **Lab ID: 92507319001** Collected: 11/19/20 12:00 Received: 11/19/20 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	108-20-3	v2
Ethylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	87-68-3	
2-Hexanone	ND	ug/kg	54.3	1	11/20/20 15:30	11/20/20 20:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	99-87-6	
Methylene Chloride	ND	ug/kg	21.7	1	11/20/20 15:30	11/20/20 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.3	1	11/20/20 15:30	11/20/20 20:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	103-65-1	
Styrene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	127-18-4	
Toluene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	108-67-8	
Vinyl acetate	ND	ug/kg	54.3	1	11/20/20 15:30	11/20/20 20:33	108-05-4	
Vinyl chloride	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	1330-20-7	
m&p-Xylene	ND	ug/kg	10.9	1	11/20/20 15:30	11/20/20 20:33	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1	11/20/20 15:30	11/20/20 20:33	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1	11/20/20 15:30	11/20/20 20:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	11/20/20 15:30	11/20/20 20:33	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1	11/20/20 15:30	11/20/20 20:33	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Pace Analytical Services - Charlotte

Percent Moisture	15.4	%	0.10	1	11/20/20 17:43
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507319

QC Batch: 582413	Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92507319001

METHOD BLANK: 3080023 Matrix: Solid
Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.8	11/24/20 18:51	
Barium	mg/kg	ND	0.93	11/24/20 18:51	
Cadmium	mg/kg	ND	0.93	11/24/20 18:51	
Chromium	mg/kg	ND	0.93	11/24/20 18:51	
Lead	mg/kg	ND	2.3	11/30/20 16:23	
Selenium	mg/kg	ND	3.7	11/24/20 18:51	
Silver	mg/kg	ND	0.93	11/30/20 16:23	

LABORATORY CONTROL SAMPLE: 3080024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	98	99.0	101	80-120	
Barium	mg/kg	98	97.2	99	80-120	
Cadmium	mg/kg	98	96.1	98	80-120	
Chromium	mg/kg	98	98.8	101	80-120	
Lead	mg/kg	98	101	103	80-120	
Selenium	mg/kg	98	96.7	99	80-120	
Silver	mg/kg	98	97.6	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3080025 3080026

Parameter	Units	92507443001		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Limits	RPD	RPD	Qual
Arsenic	mg/kg	5.4	145	145	139	162	157	108	109	75-125	3	20			
Barium	mg/kg	6.4	145	145	139	164	160	109	111	75-125	2	20			
Cadmium	mg/kg	ND	145	145	139	153	145	106	104	75-125	5	20			
Chromium	mg/kg	12.0	145	145	139	156	154	99	102	75-125	1	20			
Lead	mg/kg	ND	145	145	139	104	99.8	72	72	75-125	4	20	M1		
Selenium	mg/kg	10.5	145	145	139	165	158	107	106	75-125	4	20			
Silver	mg/kg	ND	145	145	139	154	153	107	110	75-125	1	20			

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

QC Batch: 582668

QC Batch Method: EPA 7471B

Analysis Method: EPA 7471B

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92507319001

METHOD BLANK: 3080989

Matrix: Solid

Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.24	11/24/20 14:47	

LABORATORY CONTROL SAMPLE: 3080990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.32	0.32	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3080991 3080992

Parameter	Units	92507759006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.31	0.33	0.30	0.33	96	100	75-125	8	20	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507319

QC Batch: 581966	Analysis Method: EPA 8260D
QC Batch Method: EPA 5035A/5030B	Analysis Description: 8260D 5035A 5030B
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507319001

METHOD BLANK: 3077983 Matrix: Solid

Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,1,1-Trichloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,1,2-Trichloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,1-Dichloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,1-Dichloroethene	ug/kg	ND	5.0	11/20/20 15:35	
1,1-Dichloropropene	ug/kg	ND	5.0	11/20/20 15:35	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,2,3-Trichloropropane	ug/kg	ND	5.0	11/20/20 15:35	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	11/20/20 15:35	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	11/20/20 15:35	
1,2-Dichlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,2-Dichloroethane	ug/kg	ND	5.0	11/20/20 15:35	
1,2-Dichloropropane	ug/kg	ND	5.0	11/20/20 15:35	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,3-Dichlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
1,3-Dichloropropane	ug/kg	ND	5.0	11/20/20 15:35	
1,4-Dichlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
2,2-Dichloropropane	ug/kg	ND	5.0	11/20/20 15:35	
2-Butanone (MEK)	ug/kg	ND	100	11/20/20 15:35	
2-Chlorotoluene	ug/kg	ND	5.0	11/20/20 15:35	
2-Hexanone	ug/kg	ND	50.0	11/20/20 15:35	
4-Chlorotoluene	ug/kg	ND	5.0	11/20/20 15:35	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	11/20/20 15:35	
Acetone	ug/kg	ND	100	11/20/20 15:35	
Benzene	ug/kg	ND	5.0	11/20/20 15:35	
Bromobenzene	ug/kg	ND	5.0	11/20/20 15:35	
Bromochloromethane	ug/kg	ND	5.0	11/20/20 15:35	IK
Bromodichloromethane	ug/kg	ND	5.0	11/20/20 15:35	
Bromoform	ug/kg	ND	5.0	11/20/20 15:35	
Bromomethane	ug/kg	ND	10.0	11/20/20 15:35	
Carbon tetrachloride	ug/kg	ND	5.0	11/20/20 15:35	
Chlorobenzene	ug/kg	ND	5.0	11/20/20 15:35	
Chloroethane	ug/kg	ND	10.0	11/20/20 15:35	
Chloroform	ug/kg	ND	5.0	11/20/20 15:35	
Chloromethane	ug/kg	ND	10.0	11/20/20 15:35	v2
cis-1,2-Dichloroethene	ug/kg	ND	5.0	11/20/20 15:35	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	11/20/20 15:35	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

METHOD BLANK: 3077983

Matrix: Solid

Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	11/20/20 15:35	
Dibromomethane	ug/kg	ND	5.0	11/20/20 15:35	
Dichlorodifluoromethane	ug/kg	ND	10.0	11/20/20 15:35	
Diisopropyl ether	ug/kg	ND	5.0	11/20/20 15:35	v2
Ethylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	11/20/20 15:35	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	11/20/20 15:35	
m&p-Xylene	ug/kg	ND	10.0	11/20/20 15:35	
Methyl-tert-butyl ether	ug/kg	ND	5.0	11/20/20 15:35	
Methylene Chloride	ug/kg	ND	20.0	11/20/20 15:35	
n-Butylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
n-Propylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
Naphthalene	ug/kg	ND	5.0	11/20/20 15:35	
o-Xylene	ug/kg	ND	5.0	11/20/20 15:35	
p-Isopropyltoluene	ug/kg	ND	5.0	11/20/20 15:35	
sec-Butylbenzene	ug/kg	ND	5.0	11/20/20 15:35	
Styrene	ug/kg	ND	5.0	11/20/20 15:35	
tert-Butylbenzene	ug/kg	ND	5.0	11/20/20 15:35	v2
Tetrachloroethene	ug/kg	ND	5.0	11/20/20 15:35	
Toluene	ug/kg	ND	5.0	11/20/20 15:35	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	11/20/20 15:35	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	11/20/20 15:35	
Trichloroethene	ug/kg	ND	5.0	11/20/20 15:35	
Trichlorofluoromethane	ug/kg	ND	5.0	11/20/20 15:35	
Vinyl acetate	ug/kg	ND	50.0	11/20/20 15:35	
Vinyl chloride	ug/kg	ND	10.0	11/20/20 15:35	
Xylene (Total)	ug/kg	ND	10.0	11/20/20 15:35	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/20/20 15:35	
4-Bromofluorobenzene (S)	%	100	69-134	11/20/20 15:35	
Toluene-d8 (S)	%	99	70-130	11/20/20 15:35	

LABORATORY CONTROL SAMPLE: 3077984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1020	81	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1110	89	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1010	81	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1160	93	70-130	
1,1-Dichloroethane	ug/kg	1250	1020	81	70-130	
1,1-Dichloroethene	ug/kg	1250	1060	85	70-130	
1,1-Dichloropropene	ug/kg	1250	1050	84	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1200	96	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1030	82	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1230	98	68-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

LABORATORY CONTROL SAMPLE: 3077984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1120	89	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1060	84	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1040	83	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1100	88	70-130	
1,2-Dichloroethane	ug/kg	1250	1100	88	63-130	
1,2-Dichloropropane	ug/kg	1250	1040	83	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1240	99	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1160	93	70-130	
1,3-Dichloropropane	ug/kg	1250	1080	87	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1120	89	70-130	
2,2-Dichloropropane	ug/kg	1250	1120	90	66-130	
2-Butanone (MEK)	ug/kg	2500	2170	87	70-130	
2-Chlorotoluene	ug/kg	1250	1100	88	70-130	
2-Hexanone	ug/kg	2500	2130	85	70-130	
4-Chlorotoluene	ug/kg	1250	1060	85	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2130	85	70-130	
Acetone	ug/kg	2500	2250	90	69-130	
Benzene	ug/kg	1250	1010	81	70-130	
Bromobenzene	ug/kg	1250	1110	89	70-130	
Bromochloromethane	ug/kg	1250	1150	92	70-130	IK
Bromodichloromethane	ug/kg	1250	1080	87	69-130	
Bromoform	ug/kg	1250	1050	84	70-130	
Bromomethane	ug/kg	1250	1490	119	52-130	
Carbon tetrachloride	ug/kg	1250	1000	80	70-130	
Chlorobenzene	ug/kg	1250	1080	86	70-130	
Chloroethane	ug/kg	1250	1070	86	65-130	
Chloroform	ug/kg	1250	995	80	70-130	
Chloromethane	ug/kg	1250	923	74	55-130	v3
cis-1,2-Dichloroethene	ug/kg	1250	1010	81	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1050	84	70-130	
Dibromochloromethane	ug/kg	1250	1050	84	70-130	
Dibromomethane	ug/kg	1250	1100	88	70-130	
Dichlorodifluoromethane	ug/kg	1250	1050	84	45-156	
Diisopropyl ether	ug/kg	1250	969	78	70-130	v3
Ethylbenzene	ug/kg	1250	1210	97	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1250	100	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1110	89	70-130	
m&p-Xylene	ug/kg	2500	2100	84	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1010	81	70-130	
Methylene Chloride	ug/kg	1250	1100	88	65-130	
n-Butylbenzene	ug/kg	1250	1170	93	67-130	
n-Propylbenzene	ug/kg	1250	1090	87	70-130	
Naphthalene	ug/kg	1250	1210	97	70-130	
o-Xylene	ug/kg	1250	1050	84	70-130	
p-Isopropyltoluene	ug/kg	1250	1140	91	67-130	
sec-Butylbenzene	ug/kg	1250	1140	92	69-130	
Styrene	ug/kg	1250	1060	85	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

LABORATORY CONTROL SAMPLE: 3077984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	805	64	67-130	L2,v3
Tetrachloroethene	ug/kg	1250	1080	87	70-130	
Toluene	ug/kg	1250	1030	82	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1030	82	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1010	81	68-130	
Trichloroethene	ug/kg	1250	1070	85	70-130	
Trichlorofluoromethane	ug/kg	1250	1020	82	70-130	
Vinyl acetate	ug/kg	2500	2230	89	70-130	
Vinyl chloride	ug/kg	1250	1010	81	61-130	
Xylene (Total)	ug/kg	3750	3150	84	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			98	69-134	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3077985 3077986

Parameter	Units	92506828004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	4140	4140	3720	3630	90	87	70-131	3	30	
1,1,1-Trichloroethane	ug/kg	ND	4140	4140	4140	4030	100	97	65-133	3	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4140	4140	3840	3720	93	90	66-130	3	30	
1,1,2-Trichloroethane	ug/kg	ND	4140	4140	4380	4390	106	106	66-133	0	30	
1,1-Dichloroethane	ug/kg	ND	4140	4140	3870	3700	93	89	65-130	4	30	
1,1-Dichloroethene	ug/kg	ND	4140	4140	3990	3840	96	93	10-158	4	30	
1,1-Dichloropropene	ug/kg	ND	4140	4140	3910	3790	94	91	68-133	3	30	
1,2,3-Trichlorobenzene	ug/kg	ND	4140	4140	4190	4150	101	100	27-138	1	30	
1,2,3-Trichloropropane	ug/kg	ND	4140	4140	3740	3670	90	89	67-130	2	30	
1,2,4-Trichlorobenzene	ug/kg	ND	4140	4140	4180	4220	101	102	51-134	1	30	
1,2,4-Trimethylbenzene	ug/kg	23100	4140	4140	25700	25900	61	67	63-136	1	30	M1
1,2-Dibromo-3-chloropropane	ug/kg	ND	4140	4140	3590	3590	87	87	32-130	0	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	4140	4140	3760	3730	91	90	70-130	1	30	
1,2-Dichlorobenzene	ug/kg	ND	4140	4140	4020	3920	97	95	69-130	2	30	
1,2-Dichloroethane	ug/kg	ND	4140	4140	4160	4080	100	98	59-130	2	30	
1,2-Dichloropropane	ug/kg	ND	4140	4140	3900	3820	94	92	70-130	2	30	
1,3,5-Trimethylbenzene	ug/kg	7430	4140	4140	11400	11400	97	97	65-137	0	30	
1,3-Dichlorobenzene	ug/kg	ND	4140	4140	4130	4030	100	97	70-130	2	30	
1,3-Dichloropropane	ug/kg	ND	4140	4140	3990	3890	96	94	70-130	2	30	
1,4-Dichlorobenzene	ug/kg	ND	4140	4140	3970	3940	96	95	68-130	1	30	
2,2-Dichloropropane	ug/kg	ND	4140	4140	3120	3040	75	73	32-130	3	30	
2-Butanone (MEK)	ug/kg	ND	8290	8290	8210	7950	99	96	10-136	3	30	
2-Chlorotoluene	ug/kg	ND	4140	4140	4620	4590	111	111	69-141	1	30	
2-Hexanone	ug/kg	ND	8290	8290	8220	8010	99	97	10-144	3	30	
4-Chlorotoluene	ug/kg	ND	4140	4140	3730	3790	90	92	70-132	2	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	420	8290	8290	8260	8100	94	93	25-143	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3077985 3077986											
Parameter	Units	92506828004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Acetone	ug/kg	ND	8290	8290	8120	7470	98	90	10-130	8	30
Benzene	ug/kg	1230	4140	4140	5040	4960	92	90	67-130	1	30
Bromobenzene	ug/kg	ND	4140	4140	3980	3950	96	95	70-130	1	30
Bromochloromethane	ug/kg	ND	4140	4140	4200	4060	101	98	69-134	3	30 IK
Bromodichloromethane	ug/kg	ND	4140	4140	3880	3770	94	91	64-130	3	30
Bromoform	ug/kg	ND	4140	4140	3400	3360	82	81	62-130	1	30
Bromomethane	ug/kg	ND	4140	4140	2840	2490	68	60	20-176	13	30
Carbon tetrachloride	ug/kg	ND	4140	4140	3610	3530	87	85	65-140	2	30
Chlorobenzene	ug/kg	ND	4140	4140	4010	3990	97	96	70-130	1	30
Chloroethane	ug/kg	ND	4140	4140	933	981	23	24	10-130	5	30
Chloroform	ug/kg	ND	4140	4140	3740	3690	90	89	63-130	2	30
Chloromethane	ug/kg	ND	4140	4140	3900	3760	94	91	58-130	4	30 v3
cis-1,2-Dichloroethene	ug/kg	ND	4140	4140	3790	3680	91	89	66-130	3	30
cis-1,3-Dichloropropene	ug/kg	ND	4140	4140	3640	3550	88	86	67-130	2	30
Dibromochloromethane	ug/kg	ND	4140	4140	3540	3500	85	85	67-130	1	30
Dibromomethane	ug/kg	ND	4140	4140	4010	3910	97	94	63-131	3	30
Dichlorodifluoromethane	ug/kg	ND	4140	4140	4080	3960	98	95	44-180	3	30
Diisopropyl ether	ug/kg	ND	4140	4140	3550	3430	86	83	63-130	3	30 v3
Ethylbenzene	ug/kg	5970	4140	4140	10200	10300	102	104	66-130	1	30
Hexachloro-1,3-butadiene	ug/kg	ND	4140	4140	4460	4400	108	106	64-150	1	30
Isopropylbenzene (Cumene)	ug/kg	636	4140	4140	4700	4680	98	98	69-135	0	30
m&p-Xylene	ug/kg	13500	8290	8290	20400	20700	84	88	60-133	1	30
Methyl-tert-butyl ether	ug/kg	ND	4140	4140	3710	3590	89	87	65-130	3	30
Methylene Chloride	ug/kg	ND	4140	4140	4470	4330	108	104	61-130	3	30
n-Butylbenzene	ug/kg	1390	4140	4140	5300	5520	94	100	65-140	4	30
n-Propylbenzene	ug/kg	2990	4140	4140	6740	6730	90	90	67-140	0	30
Naphthalene	ug/kg	6140	4140	4140	10600	10500	107	105	15-145	1	30
o-Xylene	ug/kg	676	4140	4140	4540	4560	93	94	66-133	0	30
p-Isopropyltoluene	ug/kg	ND	4140	4140	4720	4780	114	115	56-147	1	30
sec-Butylbenzene	ug/kg	ND	4140	4140	4300	4270	104	103	65-139	1	30
Styrene	ug/kg	57.8	4140	4140	4020	3980	96	95	70-132	1	30
tert-Butylbenzene	ug/kg	ND	4140	4140	2960	2970	71	72	62-135	0	30 v3
Tetrachloroethene	ug/kg	ND	4140	4140	3800	3900	92	94	70-135	3	30
Toluene	ug/kg	874	4140	4140	4580	4500	89	87	67-130	2	30
trans-1,2-Dichloroethene	ug/kg	ND	4140	4140	3850	3790	93	91	69-130	2	30
trans-1,3-Dichloropropene	ug/kg	ND	4140	4140	3510	3420	85	82	62-130	3	30
Trichloroethene	ug/kg	ND	4140	4140	3950	3880	95	94	70-135	2	30
Trichlorofluoromethane	ug/kg	ND	4140	4140	3490	3450	84	83	10-130	1	30
Vinyl acetate	ug/kg	ND	8290	8290	7150	7010	86	85	53-130	2	30
Vinyl chloride	ug/kg	ND	4140	4140	4030	3930	97	95	61-148	3	30
Xylene (Total)	ug/kg	14100	12400	12400	25000	25300	87	90	63-132	1	30
1,2-Dichloroethane-d4 (S)	%						92	91	70-130		
4-Bromofluorobenzene (S)	%						100	103	69-134		
Toluene-d8 (S)	%						98	98	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507319

QC Batch: 582744	Analysis Method: EPA 8082A
QC Batch Method: EPA 3546	Analysis Description: 8082 GCS PCB
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507319001

METHOD BLANK: 3081548 Matrix: Solid
Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1221 (Aroclor 1221)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.7	11/25/20 10:20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.7	11/25/20 10:20	
Decachlorobiphenyl (S)	%	88	10-160	11/25/20 10:20	

LABORATORY CONTROL SAMPLE: 3081549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	166	122	74	54-130	
PCB-1260 (Aroclor 1260)	ug/kg	166	116	70	47-139	
Decachlorobiphenyl (S)	%			83	10-160	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3081550 3081551

Parameter	Units	92507319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	196	197	167	146	85	74	17-131	13	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	196	197	140	140	72	71	10-142	0	30	
Decachlorobiphenyl (S)	%						72	73	10-160			

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302
Pace Project No.: 92507319

QC Batch:	582645	Analysis Method:	EPA 8270E
QC Batch Method:	EPA 3546	Analysis Description:	8270E Solid MSSV Microwave
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92507319001

METHOD BLANK: 3080887 Matrix: Solid

Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	329	11/24/20 18:56	
1,2-Dichlorobenzene	ug/kg	ND	329	11/24/20 18:56	
1,3-Dichlorobenzene	ug/kg	ND	329	11/24/20 18:56	
1,4-Dichlorobenzene	ug/kg	ND	329	11/24/20 18:56	
1-Methylnaphthalene	ug/kg	ND	329	11/24/20 18:56	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	329	11/24/20 18:56	
2,4,5-Trichlorophenol	ug/kg	ND	329	11/24/20 18:56	
2,4,6-Trichlorophenol	ug/kg	ND	329	11/24/20 18:56	
2,4-Dichlorophenol	ug/kg	ND	329	11/24/20 18:56	
2,4-Dimethylphenol	ug/kg	ND	329	11/24/20 18:56	
2,4-Dinitrophenol	ug/kg	ND	1640	11/24/20 18:56	
2,4-Dinitrotoluene	ug/kg	ND	329	11/24/20 18:56	
2,6-Dinitrotoluene	ug/kg	ND	329	11/24/20 18:56	
2-Chloronaphthalene	ug/kg	ND	329	11/24/20 18:56	
2-Chlorophenol	ug/kg	ND	329	11/24/20 18:56	
2-Methylnaphthalene	ug/kg	ND	329	11/24/20 18:56	
2-Methylphenol(o-Cresol)	ug/kg	ND	329	11/24/20 18:56	
2-Nitroaniline	ug/kg	ND	1640	11/24/20 18:56	
2-Nitrophenol	ug/kg	ND	329	11/24/20 18:56	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	329	11/24/20 18:56	
3,3'-Dichlorobenzidine	ug/kg	ND	658	11/24/20 18:56	
3-Nitroaniline	ug/kg	ND	1640	11/24/20 18:56	IL
4,6-Dinitro-2-methylphenol	ug/kg	ND	658	11/24/20 18:56	
4-Bromophenylphenyl ether	ug/kg	ND	329	11/24/20 18:56	
4-Chloro-3-methylphenol	ug/kg	ND	658	11/24/20 18:56	
4-Chloroaniline	ug/kg	ND	658	11/24/20 18:56	
4-Chlorophenylphenyl ether	ug/kg	ND	329	11/24/20 18:56	
4-Nitroaniline	ug/kg	ND	658	11/24/20 18:56	
4-Nitrophenol	ug/kg	ND	1640	11/24/20 18:56	
Acenaphthene	ug/kg	ND	329	11/24/20 18:56	
Acenaphthylene	ug/kg	ND	329	11/24/20 18:56	
Aniline	ug/kg	ND	329	11/24/20 18:56	
Anthracene	ug/kg	ND	329	11/24/20 18:56	
Benzo(a)anthracene	ug/kg	ND	329	11/24/20 18:56	
Benzo(a)pyrene	ug/kg	ND	329	11/24/20 18:56	
Benzo(b)fluoranthene	ug/kg	ND	329	11/24/20 18:56	
Benzo(g,h,i)perylene	ug/kg	ND	329	11/24/20 18:56	
Benzo(k)fluoranthene	ug/kg	ND	329	11/24/20 18:56	
Benzoic Acid	ug/kg	ND	1640	11/24/20 18:56	
Benzyl alcohol	ug/kg	ND	658	11/24/20 18:56	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

METHOD BLANK: 3080887

Matrix: Solid

Associated Lab Samples: 92507319001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	329	11/24/20 18:56	
bis(2-Chloroethyl) ether	ug/kg	ND	329	11/24/20 18:56	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	329	11/24/20 18:56	
Butylbenzylphthalate	ug/kg	ND	329	11/24/20 18:56	
Chrysene	ug/kg	ND	329	11/24/20 18:56	
Di-n-butylphthalate	ug/kg	ND	329	11/24/20 18:56	
Di-n-octylphthalate	ug/kg	ND	329	11/24/20 18:56	
Dibenz(a,h)anthracene	ug/kg	ND	329	11/24/20 18:56	
Dibenzofuran	ug/kg	ND	329	11/24/20 18:56	
Diethylphthalate	ug/kg	ND	329	11/24/20 18:56	
Dimethylphthalate	ug/kg	ND	329	11/24/20 18:56	
Fluoranthene	ug/kg	ND	329	11/24/20 18:56	
Fluorene	ug/kg	ND	329	11/24/20 18:56	
Hexachloro-1,3-butadiene	ug/kg	ND	329	11/24/20 18:56	
Hexachlorobenzene	ug/kg	ND	329	11/24/20 18:56	
Hexachlorocyclopentadiene	ug/kg	ND	329	11/24/20 18:56	
Hexachloroethane	ug/kg	ND	329	11/24/20 18:56	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	329	11/24/20 18:56	
Isophorone	ug/kg	ND	329	11/24/20 18:56	
N-Nitroso-di-n-propylamine	ug/kg	ND	329	11/24/20 18:56	
N-Nitrosodimethylamine	ug/kg	ND	329	11/24/20 18:56	
N-Nitrosodiphenylamine	ug/kg	ND	329	11/24/20 18:56	
Naphthalene	ug/kg	ND	329	11/24/20 18:56	
Nitrobenzene	ug/kg	ND	329	11/24/20 18:56	
Pentachlorophenol	ug/kg	ND	658	11/24/20 18:56	
Phenanthrene	ug/kg	ND	329	11/24/20 18:56	
Phenol	ug/kg	ND	329	11/24/20 18:56	
Pyrene	ug/kg	ND	329	11/24/20 18:56	
Pyridine	ug/kg	ND	329	11/24/20 18:56	
2,4,6-Tribromophenol (S)	%	79	18-130	11/24/20 18:56	
2-Fluorobiphenyl (S)	%	69	19-130	11/24/20 18:56	
2-Fluorophenol (S)	%	71	18-130	11/24/20 18:56	
Nitrobenzene-d5 (S)	%	70	21-130	11/24/20 18:56	
Phenol-d6 (S)	%	74	18-130	11/24/20 18:56	
Terphenyl-d14 (S)	%	83	15-130	11/24/20 18:56	

LABORATORY CONTROL SAMPLE: 3080888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1650	1130	69	47-130	
1,2-Dichlorobenzene	ug/kg	1650	1150	70	49-130	
1,3-Dichlorobenzene	ug/kg	1650	1160	70	48-130	
1,4-Dichlorobenzene	ug/kg	1650	1140	69	49-130	
1-Methylnaphthalene	ug/kg	1650	1110	67	54-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

LABORATORY CONTROL SAMPLE: 3080888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1650	1070	65	38-130	
2,4,5-Trichlorophenol	ug/kg	1650	1270	77	49-130	
2,4,6-Trichlorophenol	ug/kg	1650	1210	73	50-130	
2,4-Dichlorophenol	ug/kg	1650	1180	72	51-130	
2,4-Dimethylphenol	ug/kg	1650	1180	72	53-130	
2,4-Dinitrophenol	ug/kg	8250	6390	77	39-130	
2,4-Dinitrotoluene	ug/kg	1650	1370	83	53-130	
2,6-Dinitrotoluene	ug/kg	1650	1340	81	55-130	
2-Chloronaphthalene	ug/kg	1650	1180	71	48-130	
2-Chlorophenol	ug/kg	1650	1170	71	54-130	
2-Methylnaphthalene	ug/kg	1650	1150	70	57-130	
2-Methylphenol(o-Cresol)	ug/kg	1650	1210	73	50-130	
2-Nitroaniline	ug/kg	3300	2610	79	49-130	
2-Nitrophenol	ug/kg	1650	1190	72	50-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1650	1210	73	50-130	
3,3'-Dichlorobenzidine	ug/kg	3300	2390	73	47-130	
3-Nitroaniline	ug/kg	3300	2410	73	45-130	IL
4,6-Dinitro-2-methylphenol	ug/kg	3300	2910	88	50-142	
4-Bromophenylphenyl ether	ug/kg	1650	1270	77	55-130	
4-Chloro-3-methylphenol	ug/kg	3300	2550	77	52-130	
4-Chloroaniline	ug/kg	3300	2220	67	49-130	
4-Chlorophenylphenyl ether	ug/kg	1650	1260	76	53-130	
4-Nitroaniline	ug/kg	3300	2630	80	51-130	
4-Nitrophenol	ug/kg	8250	6850	83	40-130	
Acenaphthene	ug/kg	1650	1200	72	56-130	
Acenaphthylene	ug/kg	1650	1190	72	58-130	
Aniline	ug/kg	1650	960	58	44-130	
Anthracene	ug/kg	1650	1180	72	60-130	
Benzo(a)anthracene	ug/kg	1650	1300	79	59-130	
Benzo(a)pyrene	ug/kg	1650	1380	83	57-130	
Benzo(b)fluoranthene	ug/kg	1650	1360	82	54-130	
Benzo(g,h,i)perylene	ug/kg	1650	1330	80	59-130	
Benzo(k)fluoranthene	ug/kg	1650	1410	85	54-130	
Benzoic Acid	ug/kg	8250	4900	59	19-130	
Benzyl alcohol	ug/kg	3300	2290	69	50-130	
bis(2-Chloroethoxy)methane	ug/kg	1650	1090	66	55-130	
bis(2-Chloroethyl) ether	ug/kg	1650	1190	72	53-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1650	1320	80	58-130	
Butylbenzylphthalate	ug/kg	1650	1290	78	46-138	
Chrysene	ug/kg	1650	1310	79	57-130	
Di-n-butylphthalate	ug/kg	1650	1330	81	57-130	
Di-n-octylphthalate	ug/kg	1650	1310	79	57-130	
Dibenz(a,h)anthracene	ug/kg	1650	1350	82	60-130	
Dibenzofuran	ug/kg	1650	1240	75	54-130	
Diethylphthalate	ug/kg	1650	1300	79	55-130	
Dimethylphthalate	ug/kg	1650	1260	76	57-130	
Fluoranthene	ug/kg	1650	1330	81	57-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

LABORATORY CONTROL SAMPLE: 3080888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1650	1250	76	56-130	
Hexachloro-1,3-butadiene	ug/kg	1650	1060	64	41-130	
Hexachlorobenzene	ug/kg	1650	1330	81	53-130	
Hexachlorocyclopentadiene	ug/kg	1650	698	42	23-130	
Hexachloroethane	ug/kg	1650	1160	70	48-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1650	1350	82	61-130	
Isophorone	ug/kg	1650	1160	70	49-130	
N-Nitroso-di-n-propylamine	ug/kg	1650	1170	71	52-130	
N-Nitrosodimethylamine	ug/kg	1650	1040	63	45-130	
N-Nitrosodiphenylamine	ug/kg	1650	1330	81	56-130	
Naphthalene	ug/kg	1650	1130	68	56-130	
Nitrobenzene	ug/kg	1650	1150	70	50-130	
Pentachlorophenol	ug/kg	3300	2850	86	33-130	
Phenanthrene	ug/kg	1650	1340	81	60-130	
Phenol	ug/kg	1650	1190	72	54-130	
Pyrene	ug/kg	1650	1300	79	61-130	
Pyridine	ug/kg	1650	851	52	35-130	
2,4,6-Tribromophenol (S)	%			86	18-130	
2-Fluorobiphenyl (S)	%			70	19-130	
2-Fluorophenol (S)	%			69	18-130	
Nitrobenzene-d5 (S)	%			68	21-130	
Phenol-d6 (S)	%			71	18-130	
Terphenyl-d14 (S)	%			82	15-130	

MATRIX SPIKE SAMPLE: 3080890

Parameter	Units	92507714001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	2110	1010	48	22-130	
1,2-Dichlorobenzene	ug/kg	ND	2110	1010	48	23-130	
1,3-Dichlorobenzene	ug/kg	ND	2110	976	46	26-130	
1,4-Dichlorobenzene	ug/kg	ND	2110	972	46	27-130	
1-Methylnaphthalene	ug/kg	ND	2110	1080	51	30-130	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	2110	914	43	30-130	
2,4,5-Trichlorophenol	ug/kg	ND	2110	1390	66	26-130	
2,4,6-Trichlorophenol	ug/kg	ND	2110	1280	61	23-130	
2,4-Dichlorophenol	ug/kg	ND	2110	1110	53	29-130	
2,4-Dimethylphenol	ug/kg	ND	2110	1150	54	13-130	
2,4-Dinitrophenol	ug/kg	ND	10600	8390	79	10-131	
2,4-Dinitrotoluene	ug/kg	ND	2110	1640	77	28-130	
2,6-Dinitrotoluene	ug/kg	ND	2110	1560	74	36-130	
2-Chloronaphthalene	ug/kg	ND	2110	1190	56	27-130	
2-Chlorophenol	ug/kg	ND	2110	1000	48	29-130	
2-Methylnaphthalene	ug/kg	ND	2110	1120	53	29-130	
2-Methylphenol(o-Cresol)	ug/kg	ND	2110	1070	51	20-130	
2-Nitroaniline	ug/kg	ND	4230	2960	70	29-130	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

MATRIX SPIKE SAMPLE:		3080890	92507714001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
2-Nitrophenol	ug/kg	ND	2110	1110	53	26-130		
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2110	1070	51	10-176		
3,3'-Dichlorobenzidine	ug/kg	ND	4230	2780	66	15-130		
3-Nitroaniline	ug/kg	ND	4230	2920	69	28-130 IL		
4,6-Dinitro-2-methylphenol	ug/kg	ND	4230	3490	83	15-132		
4-Bromophenylphenyl ether	ug/kg	ND	2110	1450	68	35-130		
4-Chloro-3-methylphenol	ug/kg	ND	4230	2810	67	30-130		
4-Chloroaniline	ug/kg	ND	4230	2250	53	28-130		
4-Chlorophenylphenyl ether	ug/kg	ND	2110	1380	65	32-130		
4-Nitroaniline	ug/kg	ND	4230	3120	74	30-130		
4-Nitrophenol	ug/kg	ND	10600	8450	80	17-130		
Acenaphthene	ug/kg	ND	2110	1280	61	29-130		
Acenaphthylene	ug/kg	ND	2110	1290	61	31-130		
Aniline	ug/kg	ND	2110	810	38	10-130		
Anthracene	ug/kg	ND	2110	1340	63	33-130		
Benzo(a)anthracene	ug/kg	ND	2110	1520	72	32-130		
Benzo(a)pyrene	ug/kg	ND	2110	1510	71	32-130		
Benzo(b)fluoranthene	ug/kg	ND	2110	1490	71	33-130		
Benzo(g,h,i)perylene	ug/kg	ND	2110	1470	70	28-130		
Benzo(k)fluoranthene	ug/kg	ND	2110	1540	73	31-130		
Benzoic Acid	ug/kg	ND	10600	2730	26	10-130		
Benzyl alcohol	ug/kg	ND	4230	2090	49	31-130		
bis(2-Chloroethoxy)methane	ug/kg	ND	2110	1010	48	30-130		
bis(2-Chloroethyl) ether	ug/kg	ND	2110	975	46	68-130 M1		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2110	1490	71	40-130		
Butylbenzylphthalate	ug/kg	ND	2110	1550	73	40-130		
Chrysene	ug/kg	ND	2110	1550	73	30-130		
Di-n-butylphthalate	ug/kg	ND	2110	1490	71	41-130		
Di-n-octylphthalate	ug/kg	ND	2110	1500	71	42-130		
Dibenz(a,h)anthracene	ug/kg	ND	2110	1510	71	27-130		
Dibenzofuran	ug/kg	ND	2110	1380	65	32-130		
Diethylphthalate	ug/kg	ND	2110	1510	72	40-130		
Dimethylphthalate	ug/kg	ND	2110	1480	70	37-130		
Fluoranthene	ug/kg	ND	2110	1510	71	26-130		
Fluorene	ug/kg	ND	2110	1400	66	31-130		
Hexachloro-1,3-butadiene	ug/kg	ND	2110	958	45	20-130		
Hexachlorobenzene	ug/kg	ND	2110	1410	66	29-130		
Hexachlorocyclopentadiene	ug/kg	ND	2110	660	31	10-130		
Hexachloroethane	ug/kg	ND	2110	905	43	21-130		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2110	1480	70	28-130		
Isophorone	ug/kg	ND	2110	1170	55	32-130		
N-Nitroso-di-n-propylamine	ug/kg	ND	2110	1040	49	31-130		
N-Nitrosodimethylamine	ug/kg	ND	2110	889	42	20-130		
N-Nitrosodiphenylamine	ug/kg	ND	2110	1480	70	32-130		
Naphthalene	ug/kg	ND	2110	1050	50	30-130		
Nitrobenzene	ug/kg	ND	2110	1070	50	25-130		
Pentachlorophenol	ug/kg	ND	4230	3310	78	10-130		

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

MATRIX SPIKE SAMPLE: 3080890		92507714001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Phenanthrene	ug/kg	ND	2110	1510	72	34-130	
Phenol	ug/kg	ND	2110	999	47	14-130	
Pyrene	ug/kg	ND	2110	1580	75	31-130	
Pyridine	ug/kg	ND	2110	296J	14	10-130	
2,4,6-Tribromophenol (S)	%				74	18-130	
2-Fluorobiphenyl (S)	%				52	19-130	
2-Fluorophenol (S)	%				45	18-130	
Nitrobenzene-d5 (S)	%				48	21-130	
Phenol-d6 (S)	%				46	18-130	
Terphenyl-d14 (S)	%				76	15-130	

SAMPLE DUPLICATE: 3080889

Parameter	Units	92506832001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
1-Methylnaphthalene	ug/kg	ND	ND		30	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND		30	
2,4,5-Trichlorophenol	ug/kg	ND	ND		30	
2,4,6-Trichlorophenol	ug/kg	ND	ND		30	
2,4-Dichlorophenol	ug/kg	ND	ND		30	
2,4-Dimethylphenol	ug/kg	ND	ND		30	
2,4-Dinitrophenol	ug/kg	ND	ND		30	
2,4-Dinitrotoluene	ug/kg	ND	ND		30	
2,6-Dinitrotoluene	ug/kg	ND	ND		30	
2-Chloronaphthalene	ug/kg	ND	ND		30	
2-Chlorophenol	ug/kg	ND	ND		30	
2-Methylnaphthalene	ug/kg	ND	ND		30	
2-Methylphenol(o-Cresol)	ug/kg	ND	ND		30	
2-Nitroaniline	ug/kg	ND	ND		30	
2-Nitrophenol	ug/kg	ND	ND		30	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	ND		30	
3,3'-Dichlorobenzidine	ug/kg	ND	ND		30	
3-Nitroaniline	ug/kg	ND	ND		30 IL	
4,6-Dinitro-2-methylphenol	ug/kg	ND	ND		30	
4-Bromophenylphenyl ether	ug/kg	ND	ND		30	
4-Chloro-3-methylphenol	ug/kg	ND	ND		30	
4-Chloroaniline	ug/kg	ND	ND		30	
4-Chlorophenylphenyl ether	ug/kg	ND	ND		30	
4-Nitroaniline	ug/kg	ND	ND		30	
4-Nitrophenol	ug/kg	ND	ND		30	
Acenaphthene	ug/kg	ND	ND		30	
Acenaphthylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

SAMPLE DUPLICATE: 3080889

Parameter	Units	92506832001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aniline	ug/kg	ND	ND		30	
Anthracene	ug/kg	ND	ND		30	
Benzo(a)anthracene	ug/kg	ND	ND		30	
Benzo(a)pyrene	ug/kg	ND	ND		30	
Benzo(b)fluoranthene	ug/kg	ND	ND		30	
Benzo(g,h,i)perylene	ug/kg	ND	ND		30	
Benzo(k)fluoranthene	ug/kg	ND	ND		30	
Benzoic Acid	ug/kg	ND	ND		30	
Benzyl alcohol	ug/kg	ND	ND		30	
bis(2-Chloroethoxy)methane	ug/kg	ND	ND		30	
bis(2-Chloroethyl) ether	ug/kg	ND	ND		30	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND		30	
Butylbenzylphthalate	ug/kg	ND	ND		30	
Chrysene	ug/kg	ND	ND		30	
Di-n-butylphthalate	ug/kg	ND	ND		30	
Di-n-octylphthalate	ug/kg	ND	ND		30	
Dibenz(a,h)anthracene	ug/kg	ND	ND		30	
Dibenzofuran	ug/kg	ND	ND		30	
Diethylphthalate	ug/kg	ND	ND		30	
Dimethylphthalate	ug/kg	ND	ND		30	
Fluoranthene	ug/kg	ND	ND		30	
Fluorene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Hexachlorobenzene	ug/kg	ND	ND		30	
Hexachlorocyclopentadiene	ug/kg	ND	ND		30	
Hexachloroethane	ug/kg	ND	ND		30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		30	
Isophorone	ug/kg	ND	ND		30	
N-Nitroso-di-n-propylamine	ug/kg	ND	ND		30	
N-Nitrosodimethylamine	ug/kg	ND	ND		30	
N-Nitrosodiphenylamine	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
Nitrobenzene	ug/kg	ND	ND		30	
Pentachlorophenol	ug/kg	ND	ND		30	
Phenanthrene	ug/kg	ND	ND		30	
Phenol	ug/kg	ND	ND		30	
Pyrene	ug/kg	ND	ND		30	
Pyridine	ug/kg	ND	ND		30	
2,4,6-Tribromophenol (S)	%	59	51			
2-Fluorobiphenyl (S)	%	51	45			
2-Fluorophenol (S)	%	51	44			
Nitrobenzene-d5 (S)	%	53	45			
Phenol-d6 (S)	%	54	46			
Terphenyl-d14 (S)	%	59	49			

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QUALITY CONTROL DATA

Project: AWI Facility 1690019302

Pace Project No.: 92507319

QC Batch: 582034

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92507319001

SAMPLE DUPLICATE: 3078556

Parameter	Units	92507245001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.3	20.9	2	25	

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QUALIFIERS

Project: AWI Facility 1690019302

Pace Project No.: 92507319

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWI Facility 1690019302

Pace Project No.: 92507319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92507319001	WC-01 20201119	EPA 3546	582744	EPA 8082A	582884
92507319001	WC-01 20201119	EPA 3050B	582413	EPA 6010D	582700
92507319001	WC-01 20201119	EPA 7471B	582668	EPA 7471B	582684
92507319001	WC-01 20201119	EPA 3546	582645	EPA 8270E	582888
92507319001	WC-01 20201119	EPA 5035A/5030B	581966	EPA 8260D	582027
92507319001	WC-01 20201119	ASTM D2974-87	582034		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020

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Issuing Authority:

Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition
Upon Receipt

Client Name:

Project #

WO#: 92507319

PM: NJK

Due Date: 11/30/20

CLIENT: GA-Ramboll

Courier:

☐ Commercial

☐ Fed Ex

☐ UPS

☐ USPS

☒ Client

☐ Pace

☐ Other: _____

Custody Seal Present?

☐ Yes

☒ No

Seals Intact?

☐ Yes

☐ No

Packing Material:

☐ Bubble Wrap

☒ Bubble Bags

☐ None

☒ Other

Thermometer:

☒ IR Gun ID:

230

Type of Ice:

☐ Wet

☐ Blue

☐ None

Cooler Temp:

5.5

Correction Factor:

Add/Subtract (°C)

0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

5.5

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

Comments/Discrepancy:

Chain of Custody Present?

☒ Yes

☐ No

☐ N/A

1.

Samples Arrived within Hold Time?

☒ Yes

☐ No

☐ N/A

2.

Short Hold Time Analysis (<72 hr.)?

☐ Yes

☒ No

☐ N/A

3.

Rush Turn Around Time Requested?

☐ Yes

☒ No

☐ N/A

4.

Sufficient Volume?

☒ Yes

☐ No

☐ N/A

5.

Correct Containers Used?

☒ Yes

☐ No

☐ N/A

6.

-Pace Containers Used?

☒ Yes

☐ No

☐ N/A

Containers Intact?

☒ Yes

☐ No

☐ N/A

7.

Dissolved analysis: Samples Field Filtered?

☐ Yes

☐ No

☒ N/A

8.

Sample Labels Match COC?

☒ Yes

☐ No

☐ N/A

9.

-Includes Date/Time/ID/Analysis Matrix: SL

Headspace in VOA Vials (>5-6mm)?

☐ Yes

☐ No

☒ N/A

10.

Trip Blank Present?

☐ Yes

☐ No

☒ N/A

11.

Trip Blank Custody Seals Present?

☐ Yes

☐ No

☒ N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date: